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ABSTRACT

This publication is based on data from several federal surveys from all accredited institutions of higher education. Three of them are: the Completions Survey conducted by the National Center for Education Statistics; the U.S. Department of Education's Survey of Degrees and Other Formal Awards Conferred; and the Survey of Earned Doctorates. These data cover earned degrees conferred in the aggreate United States in science and engineering during the period from Earned Doctorates. These data cover earned degrees conferred in the aggregate United States in science and engineering during the period from June, 1985 through June, 1993. The first section contains data highlights for degrees awarded to underrepresented minorities by the following fields: psychology, social science, biological science, mathematics, physical sciences, engineering, agriculture, and computer Higher Education General Information Survey/Integrated Postsecondary Education Data System classification system. The last two sections definitions of racial/ethnic categories and historical changes in the Higher Education General Information Survey/Integrated Postsecondary Education Data System classification system. The last two sections contain statistical charts and tables. (MKR)

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ED 406 139

Science and Engineering Degrees, by Race/Ethnicity of Recipients

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1985–93

Detailed Statistical Tables

Division of Science Resources Studies
Directorate for Social, Behavioral and Economic Sciences

National Science Foundation

NSF 95-330

SE 057480

2

Science and Engineering Degrees, by Race/Ethnicity of Recipients

1985–93

Detailed Statistical Tables

Susan T. Hill, Author

Division of Science Resources Studies
Directorate for Social, Behavioral and Economic Sciences

National Science Foundation

NSF 95-330

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General Notes

This publication is based on data obtained by the National Center for Education Statistics, U.S. Department of Education, from all accredited institutions of higher education. These data cover earned degrees conferred in the aggregate United States, which includes the 50 States, the District of Columbia, and the U.S. Territories and Outlying Areas (American Samoa, the former Canal Zone, the Northern Mariana Islands, Puerto Rico, the U.S. Virgin Islands, and the Trust Territory of the Pacific Islands). Degree data are compiled for a 12-month period, July of one year through June of the following year. For convenience, degrees for such a given 12-month period will be referred to by the year in which the period ended, e.g., 1993 means the 12-month period ending June 1993.

There were changes in the classification of fields between 1985–91 and 1992–93. See the Technical Notes for information on the field classifications used. Because racial/ethnic data were collected by broad fields of study only, the definition of science and engineering used by the National Science Foundation (NSF) for this report must include fields normally not included. There is one instance where this difference has a large impact—the broad field of "Social Sciences." The U.S. Department of Education includes the field of history in this broad category, so when it collects the racial/ethnic data, this field is included.

Before 1985, the broad category of "Engineering" included engineering technologies. This report is different from earlier reports in that it excludes engineering technologies so that trend data by race/ethnicity are more consistent with the definition of science and engineering used in other NSF reports. If the reader is interested in earlier data for science fields (that are consistent from 1977 to 1993), please request *Science and Engineering Degrees, by Race/Ethnicity of Recipients: 1977–91*, NSF 94-306.

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Section A.

Data Highlights

Trends in Bachelor's Degrees Awarded to Racial/Ethnic Minorities in Science and Engineering

The number of bachelor's degrees in science and engineering (S&E) fields awarded to underrepresented minority students showed robust growth in the early 1990s, after a period of relatively slow growth from 1985 to 1990. From 1990 to 1993, the number of baccalaureate recipients with degrees in S&E increased 34 percent for blacks, 32 percent for Hispanics, and 43 percent for American Indians. The percentage increases for underrepresented minority groups were higher than the percentage increases found among white recipients (10 percent) and Asian recipients (26 percent) (table A).

Table A. Science and engineering bachelor's degrees, by race/ethnicity of recipients: percentage change, 1985–90 and 1990–93

Race/ethnicity	1985–90	1990–93
White, non-Hispanics	-4%	10%
Asians or Pacific Islanders	46%	26%
Underrepresented minorities, total	10%	34%
Black, non-Hispanics	7%	34%
Hispanics	16%	32%
American Indians or Alaskan Natives	-8%	43%

SOURCE: NSF/SRS tabulations of National Center for Education Statistics Completions Survey data

In 1993 there were similar numbers of black bachelor's degree recipients in S&E (24,421) and Asian recipients (24,504). The number of Hispanics earning bachelor's degrees in S&E fields hit an all-time high of 18,442, as did American Indians, 1,819.

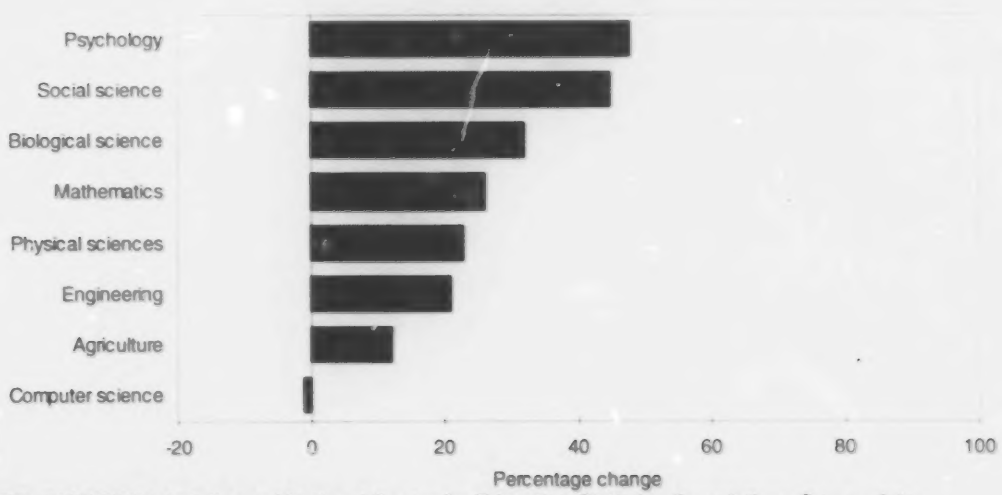
Among underrepresented minority groups, the increases in baccalaureate degrees vary by field of science or engineering. From 1990 to 1993 the percentage changes in baccalaureates awarded to underrepresented groups ranged from a 1-percent decrease in computer science degrees to an increase of 48 percent in psychology degrees (chart A).

Underrepresented minorities comprised 28 percent of the "college-age" population (18–24 years old) in 1993, whereas baccalaureates earned by underrepresented minority students accounted for only 12 percent of the total S&E degrees in 1993.

Degree awards have increased more in the social sciences, fields in which there is a slightly higher concentration of S&E bachelor's degree recipients among underrepresented minorities (59 percent) than among whites (56 percent).

Among S&E baccalaureate recipients in 1993, a slightly lower percentage of underrepresented minorities majored in engineering (13 percent) than did whites (15 percent), and the percentages of these groups choosing natural sciences were even more similar (table B).

Chart A. Science and engineering degrees awarded to underrepresented minorities, by field: percentage change, 1990–93



SOURCE: NSF/SRS tabulations of National Center for Education Statistics Completions Survey data

Table B. S&E bachelor's degree recipients, by broad field: percentage distribution, 1993

Race/ethnicity	Engineering	Natural sciences	Social sciences
Underrepresented minorities	13	28	59
Whites	15	29	56
Asians	26	39	35

Although these slight differences exist, the gaps once found between the field choices of underrepresented minorities and whites have virtually disappeared. One-third of all bachelor's degree recipients of all racial/ethnic groups (except Asians, at 49 percent) chose S&E fields in 1993.

Section B.

Technical Notes

INTRODUCTION

This report is based on final data from several Federal surveys. Two of them are the U.S. Department of Education's Survey of Degrees and Other Formal Awards Conferred, and the Completions Survey conducted annually by the National Center for Education Statistics (NCES) as part of the Higher Education General Information Survey (HEGIS), later renamed the Integrated Postsecondary Education Data System (IPEDS). The third is the Survey of Earned Doctorates, conducted annually for the National Science Foundation (NSF) and four other Federal agencies by the National Research Council. Each source is described in more detail in the following sections.

Data from the Survey of Degrees and Other Formal Awards Conferred and from the Completions Survey were used to report the number of bachelor's and master's degrees. The data on doctoral degrees in this report were derived from the Survey of Earned Doctorates, which surveyed all individuals earning research doctorates, rather than from the Completions Survey, which surveyed the institutions awarding the doctorates. The Earned Doctorate data were preferred because the data provided by individuals are more specific with respect to the field of specialization and are less prone to errors in data reporting and data entry than are the data provided by institutions. Furthermore, doctorate data provide 100 percent coverage for data by field and sex of individual recipients, whereas institutional data are subject to imputation for nonresponse. For a comparison of reporting on doctoral degrees in the Completions Survey and the Survey of Earned Doctorates, see National Science Foundation, *Science and Engineering Doctorates: 1960–91*, NSF 93-301, Detailed Statistical Tables (Washington, DC, 1993).

In this report the racial and ethnic categories among U.S. citizens who were degree recipients during the 1985–93 period are charted and tabulated. It is recognized that the concept of race/ethnicity is as much a socially constructed characteristic as a biological one. Scholars such as Farley and Allen have noted that "the sociological reality of race is more important than its biological reality. Race exerts a profound influence over the lives of people in this society."[1]

The following five racial/ethnic categories are required in Federal Government surveys of institutions:

Black, non-Hispanic
American Indian or Alaskan Native
Asian or Pacific Islander
Hispanic
White, non-Hispanic

Persons who are U.S. citizens or foreign citizens admitted for permanent residence are classified into the above categories. The ethnic category of Hispanic took precedence over the racial categories in the data collection. In addition, nonresident aliens, i.e., those admitted to the United States for temporary residence, are separately identified as a sixth category in the survey. The nonresident aliens are not to be reported in the aforementioned racial/ethnic groups.

The definitions for the racial/ethnic categories used in the survey are as follows:

Nonresident alien—A person who is not a citizen or national of the United States and who is in this country on a temporary basis and does not have the right to remain indefinitely. Resident aliens who are not citizens of the United States and who have been lawfully admitted for permanent residence (and who hold alien registration receipt cards—Form I-551/155) are to be reported in the appropriate racial/ethnic categories along with U.S. citizens.

Black, non-Hispanic—A person having origins in any of the black racial groups of Africa (except those of Hispanic origin).

American Indian or Alaskan Native—A person having origins in any of the original peoples of North America and who maintains cultural identification through tribal affiliation or community recognition.

---

[1] Richard Farley and Walter R. Allen, *The Color Line and the Quality of Life in America* (New York: Russell Sage Foundation, 1987), p. 6.

Asian or Pacific Islander—A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. These areas include, for example, China, Japan, Korea, the Philippine Islands, and Samoa.

Hispanic—A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

White, non-Hispanic—A person having origins in any of the original peoples of Europe, North Africa, or the Middle East (except those of Hispanic origin).

For the bachelor's and master's degree data, the manner of collecting racial and ethnic data is left to the discretion of the institution, provided that the system established results in reasonably accurate data. The information is gathered by NCES for the Office of Civil Rights, U.S. Department of Education, in compliance with title I of the Civil Rights Act of 1964 and title IX of the Education Amendments of 1972.

Bachelor's and Master's Degree Data

Bachelor's and master's degree data presented in this report were derived from two surveys conducted by NCES: the Survey of Degrees and Other Formal Awards Conferred and the Completions Survey. Data for the year 1985 are from the Degrees Survey conducted as part of HEGIS. Data for 1987 to 1993 are from the Completions Survey, which is a component of IPEDS. IPEDS has replaced HEGIS as the new postsecondary education data collection system for NCES. Data from the HEGIS and IPEDS surveys are comparable for the variables used in this report.

These surveys requested data on the number of associate's, bachelor's, master's, doctoral, and first-professional degrees conferred by institutions of higher education. The data were requested according to sex of recipient and field of study for each degree level. Data on the race/ethnicity of degree recipients were collected biennially by NCES for the Office of Civil Rights from 1985 through 1989 and annually since then. A major limitation is that data are collected only at the broad field level[2] and according to the Federal racial/ethnic designations of degree recipients.

The surveys were mailed to all accredited universities and colleges in the United States, including the U.S. territories, for completion by the institution. Followup for nonresponse and editing was conducted by letter and telephone. The overall response rate for institutions of higher education ranged between 94 and 96 percent between 1985 and 1993.

Some institutions provided only the total number of completions, by award level and by sex; others provided the number of completions by award level, sex, and field but did not provide racial/ethnic data.

Imputations for the years 1985 through 1993 were computer generated. Imputations were developed for institutions that did not provide complete racial/ethnic data. Some of these institutions had reported total degrees awarded but not racial/ethnic data, and others had reported totals that were larger or smaller than the sum of the racial/ethnic components.

In the first case, wherein institutions did not report any racial/ethnic data by field, NCES imputed data on the basis of an earlier response for each institution, if available.

The following table indicates the percentage of imputed data in 1993, by award level and racial/ethnic category.

Race/ethnicity	Bachelor's	Master's
White, non-Hispanics	1.0	1.8
Black, non-Hispanics	1.3	2.1
Hispanics	1.3	2.6
Asians or Pacific Islanders	1.6	3.0
American Indians or Alaskan Natives	0.6	0.8
Nonresident aliens	1.2	2.7
Race/ethnicity unknown	1.7	7.0

[2] Broad field level refers to the 2-digit program levels in U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs* (Washington, DC: GPO, 1991).

In the second case, wherein racial/ethnic data were reported but did not add to the total degree recipients, NCES distributed the difference among the racial/ethnic groups for that institution. *Note:* This report, however, does not do that; unknowns are shown in the table.

In examining data on degrees awarded to minorities, it must be noted that 1 to 5 percent of all S&E degrees awarded in 1985–93 were awarded to individuals whose race/ethnicity was unknown. This unknown category could affect trends and observable changes in the number and share of awards received by minority students, particularly if there are shifts from year to year in the number of degree recipients with unknown race/ethnicity. As tables 1–3 indicate, the share of degrees awarded to individuals whose race/ethnicity was unknown varied somewhat by degree level.

This National Science Foundation report differs from those published by NCES in that data for the U.S. territories are included, whereas NCES excludes them from most of its published reports.

Doctoral Degree Data

In the Survey of Earned Doctorates, information is collected during the period of July 1 of one year to June 30 of the next from all persons who have fulfilled the requirements for a research doctorate. The survey is funded jointly by NSF and four other agencies: the U.S. Department of Education, the National Institutes of Health, the National Endowment for the Humanities, and the U.S. Department of Agriculture. The National Research Council sends the survey forms to all accredited doctorate-granting institutions for distribution by the graduate deans to all research doctorate recipients as they complete degree requirements. Information collected in the survey comprises demographic data, such as the student's sex, citizenship, and racial/ethnic group; education history, including field of degrees; sources of graduate student support; employment status during the year preceding receipt of the doctorate; postgraduation plans; and background on parents' education. Approximately 92 to 95 percent of the doctorate recipients complete and return the survey forms. For nonrespondents, commencement programs constituted a source of skeletal information that was added to the file. These variables were sex, field of study, institution, year of doctorate, and educational background. Data are updated annually from completed survey forms submitted belatedly by previous nonrespondents, so numbers may change slightly in the future updates.

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
SCIENCE AND ENGINEERING (S&E)	**SCIENCE AND ENGINEERING (S&E)**	**SCIENCE AND ENGINEERING (S&E)**
ENGINEERING	**ENGINEERING**	**ENGINEERING**
14 Engineering	14 Engineering	**Aeronautical/Astronautical Engineering**
		300 Aerospace, Aeronautical, and Astronautical Engineering
		Chemical Engineering
		312 Chemical Engineering
		366 Petroleum Engineering
		369 Polymer and Plastics Engineering
		547 Fuel Technology and Petroleum Engineering
		Civil Engineering
		315 Civil Engineering
		336 Environmental Health Engineering
		Electrical Engineering
		318 Communications Engineering
		321 Computer Engineering
		322 Electrical Engineering
		323 Electronics Engineering
		324 Electrical and Electronics Engineering
		Industrial Engineering
		339 Industrial and Manufacturing Engineering
		Mechanical Engineering
		327 Engineering Mechanics
		345 Mechanical Engineering

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		Materials/Metallurgical Engineering 309 Ceramic Sciences 342 Materials Science 348 Metallurgical Engineering **Other Engineering** 303 Agricultural Engineering 306 Bioengineering and Biomedical Engineering 330 Engineering Physics 333 Engineering Science 351 Mining and Mineral Engineering 354 Naval Architecture and Marine Engineering 357 Nuclear Engineering 360 Ocean Engineering 363 Operations Research 372 Systems Engineering 375 Textile Engineering 398 Engineering, General 399 Engineering, Other
SCIENCES NATURAL SCIENCES **Physical Science** 40 Physical Sciences (Includes Earth/Atmospheric/ Oceanographic Sciences)	**SCIENCES** NATURAL SCIENCES **Physical Science** 40 Physical Sciences (Includes Earth/Atmospheric/ Oceanographic Sciences)	**SCIENCES** PHYSICAL SCIENCES **Astronomy** 500 Astronomy 505 Astrophysics 506 Astronomy and Astrophysics **Chemistry** 520 Analytical Chemistry 521 Agricultural and Food Chemistry 522 Inorganic Chemistry 524 Nuclear Chemistry 526 Organic Chemistry 528 Pharmaceutical Chemistry 530 Physical Chemistry

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		532 Polymer Chemistry 534 Theoretical Chemistry 538 Chemistry, General 539 Chemistry, Other **Physics** 560 Acoustics 561 Chemical and Atomic/ Molecular Physics 562 Electron Physics 563 Electromagnetic Physics 564 Elementary Particle Physics 566 Fluids 567 Mechanics 568 Nuclear Physics 569 Optics 570 Plasma and High-Temperature Physics 572 Polymer Physics 573 Thermal Physics 574 Solid State and Low-Temperature Physics 575 Theoretical Physics 578 Physics, General 579 Physics, Other **Other Physical Sciences** 599 Physical Sciences, Other **Atmospheric Sciences** 510 Atmospheric Physics and Chemistry 512 Atmospheric Dynamics 514 Meteorology 518 Atmospheric Science/ Meteorology, General 519 Atmospheric Science/ Meteorology, Other **Geosciences** 540 Geology 542 Geochemistry

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		544 Geophysics and Seismology
		545 Geophysics (Solid Earth)
		546 Paleontology
		548 Mineralogy and Petrology
		549 Mineralogy, Petrology, and Geochemistry
		550 Stratigraphy and Sedimentation
		552 Geomorphology and Glacial Geology
		554 Applied Geology
		555 Applied Geology and Geological Engineering
		558 Geological and Related Sciences, General
		559 Geological and Related Sciences, Other
		585 Hydrology and Water Resources
		Oceanography
		590 Oceanography
		595 Marine Sciences
		Other Environmental Sciences
		580 Environmental Science
		MATHEMATICAL/COMPUTER SCIENCES
Mathematical Science	**Mathematical Science**	**Mathematics**
27 Mathematics	27 Mathematics	420 Applied Mathematics
		425 Algebra
		430 Analysis and Functional Analysis
		435 Geometry
		440 Logic
		445 Number Theory
		450 Mathematical Statistics
		455 Topology
		460 Computing Theory and Practice
		465 Operations Research

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		498 Mathematics, General
		499 Mathematics, Other
Computer Science	**Computer Science**	**Computer Science**
11 Computer and Information Sciences	11 Computer and Information Sciences	400 Computer Science
		410 Information Science and Systems
		BIOLOGICAL/ AGRICULTURAL SCIENCES
Agricultural Science	**Agricultural Science**	**Agricultural Sciences**
02 Agricultural Sciences	02 Agricultural Sciences	005 Animal Breeding and Genetics
03 Renewable Natural Resources	03 Conservation and Renewable Natural Resources	007 Animal Husbandry
		010 Animal Nutrition
		012 Dairy Science
		014 Poultry Science
		019 Animal Sciences, Other
		020 Agronomy and Crop Science
		025 Plant Breeding and Genetics
		030 Plant Pathology
		032 Plant Protection/Pest Management
		039 Plant Sciences, Other
		040 Food Sciences
		042 Food Distribution
		043 Food Engineering
		044 Food Sciences, Other
		045 Soil Sciences
		046 Soil Chemistry and Microbiology
		049 Soil Sciences, Other
		050 Horticulture Science
		054 Fish and Wildlife
		055 Fisheries Science and Management
		060 Wildlife Management
		065 Forestry Sciences
		066 Forest Biology
		068 Forest Engineering
		070 Forest Management

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		072 Wood Science and Pulp/ Paper Technology
		074 Conservation and Renewable Natural Resources
		079 Forestry and Related Sciences
		080 Wildlife and Range Management
		098 Agricultural Science, General
		099 Agricultural Science, Other
Biological Science	**Biological Science**	**Biological Sciences**
26 Biological Sciences/Life Sciences	26 Biological Sciences/Life Sciences	100 Biochemistry
		105 Biophysics
		107 Biotechnology Research
		110 Bacteriology
		115 Plant Genetics
		120 Plant Pathology
		125 Plant Physiology
		129 Botany, Other
		130 Anatomy
		133 Biometrics and Biostatistics
		136 Cell Biology
		139 Ecology
		140 Hydrobiology
		142 Embryology
		145 Endocrinology
		148 Entomology
		151 Biological Immunology
		154 Molecular Biology
		156 Microbiology and Bacteriology
		157 Microbiology
		160 Neuroscience
		163 Nutritional Sciences
		166 Parasitology
		169 Toxicology
		170 Genetics, Human and Animal
		171 Genetics

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		175 Pathology, Human and Animal 180 Pharmacology, Human and Animal 185 Physiology, Human and Animal 186 Animal and Plant Physiology 189 Zoology, Other 198 Biological Sciences, General 199 Biological Sciences, Other
SOCIAL SCIENCES	SOCIAL SCIENCES	SOCIAL SCIENCES **Economics** 000 Agricultural Economics 666 Economics 668 Econometrics **Political Science** 674 International Relations/ Affairs 678 Political Science and Government 679 Political Science and Public Administration 682 Public Policy Analysis 976 Public Administration **Sociology** 662 Demography and Population Studies 686 Sociology
Social Science 05 Area and Ethnic Studies 45 Social Sciences	**Social Science** 05 Area, Ethnic, and Cultural Studies 45 Social Sciences and History	**Other Social Sciences** 650 Anthropology 652 Area Studies 658 Criminology 670 Geography 690 Statistics 694 Urban Affairs/Studies 698 Social Sciences, General 699 Social Sciences, Other

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		710 History and Philosophy of Science and Technology
		729 Linguistics
		770 American Studies
		773 Archeology
Psychology	**Psychology**	**Psychology**
42 Psychology	42 Psychology	600 Clinical Psychology
		603 Cognitive Psychology and Psycholinguistics
		606 Comparative Psychology
		609 Counseling Psychology
		612 Developmental and Child Psychology
		615 Experimental Psychology
		616 Experimental, Comparative, and Physiological Psychology
		618 Educational Psychology
		619 Human Engineering
		621 Industrial and Organizational Psychology
		624 Personality Psychology
		627 Physiological Psychology/ Psychobiology
		630 Psychometrics
		633 Quantitative Psychology
		636 School Psychology
		639 Social Psychology
		648 Psychology, General
		649 Psychology, Other
NON-S&E	**NON-S&E**	**NON-S&E**
01 Agribusiness and Agricultural Production	01 Agricultural Business and Production	**MEDICAL SCIENCES**
04 Architecture and Environmental Design	04 Architecture and Related Programs	205 Dentistry
06 Business and Management		210 Environmental Health
		215 Public Health
		219 Public Health and Epidemiology

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
07 Business (Administrative Support), Other	08 Marketing Operations/ Marketing and Distribution	220 Epidemiology
08 Marketing and Distribution	09 Communications	225 Medicine and Surgery
09 Communications	10 Communications Technologies	235 Optometry and Ophthalmology
12 Consumer, Personal, and Miscellaneous Services	12 Personal and Miscellaneous Services	240 Pharmacy
13 Education	13 Education	250 Veterinary Science
16 Foreign Languages	15 Engineering-Related Technologies	**OTHER SCIENCES**
17 Allied Health	16 Foreign Languages and Literatures	200 Speech/Language Pathology and Audiology
18 Health Sciences (Including Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry or Podiatric Medicine or Chiropody, Veterinary Medicine, Chiropractic)	17 Allied Health	212 Health Systems/Services Administration
19 Home Economics	18 Health Professions and Related Sciences (Including Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry or Podiatric Medicine or Chiropody, Veterinary Medicine, Chiropractic, Allied Health)	224 Hospital Administration
20 Vocational Home Economics	19 Home Economics	230 Nursing
22 Law	20 Vocational Home Economics	245 Rehabilitation/Therapeutic Services
23 Letters	22 Law and Legal Studies	298 Health Sciences, General
24 Liberal/General Studies	23 English Language and Literature/Letters	299 Health Sciences, Other
25 Library and Archival Sciences	24 Liberal/General Studies	**HISTORY**
28 Military Sciences	25 Library and Archival Sciences	700 History, American
29 Military Technologies	28 Reserve Officer Training Corps (ROTC)	705 History, European
30 Multi-/Interdisciplinary Studies	29 Military Technologies	718 History, General
31 Parks and Recreation	30 Multi-/Interdisciplinary Studies	719 History, Other
38 Philosophy and Religion	31 Parks, Recreation, Leisure, and Fitness Studies	**ENGLISH AND LITERATURE**
39 Theology	38 Philosophy and Religion	720 Classics
41 Science Technologies	39 Theological Studies and Religious Vocations	723 Comparative Literature
44 Public Affairs (Does not include Parks and Recreation Management, and Law Enforcement and Correction)	41 Science Technologies	725 English and American Literature
43 Protective Services		726 English Language
46 Construction Trades		732 Literature, American
47 Mechanics and Repairers		733 Literature, English
48 Precision Production		734 English Language
		736 Speech and Rhetorical Studies
		738 Letters, General
		739 Letters, Other
		FOREIGN LANGUAGES
		740 French
		743 German

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
49 Transportation and Material Moving	43 Protective Services	746 Italian
50 Visual and Performing Arts	44 Public Administration and Services (Does not include Parks and Recreation Management, and Law Enforcement and Correction)	749 Spanish
		752 Russian
		755 Slavic (Other than Russian)
		758 Chinese
		762 Japanese
		765 Hebrew
		768 Arabic
	46 Construction Trades	769 Other Languages and Literature
	47 Mechanics and Repairers	
	48 Precision Production Trades	**OTHER HUMANITIES**
	49 Transportation and Materials Moving Workers	785 Philosophy (See also 440)
		798 Humanities, General
	50 Visual and Performing Arts	799 Humanities, Other
	52 Business Management and Administrative Services	**RELIGION AND THEOLOGY**
		790 Religion (See also 984)
		791 Religion and Theology
		984 Theology/Religious Education (See also 790)
		ARTS AND MUSIC
		774 Art, Applied
		775 Art, Fine/Applied
		776 Art History/Criticism/ Conservation
		780 Music
		795 Drama/Theater Arts
		ARCHITECTURE AND ENVIRONMENTAL DESIGN
		960 Architecture and Environmental Design
		SCIENCE EDUCATION
		884 Science Education
		MATHEMATICS EDUCATION
		874 Mathematics Education

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		SOCIAL SCIENCE EDUCATION
		885 Social Science Education
		OTHER SCIENCE/ TECHNICAL EDUCATION
		860 Agricultural Education
		868 Health Education
		872 Technical and Industrial Arts Education
		878 Nursing Education
		887 Technical Education
		NON-SCIENCE EDUCATION
		800 Curriculum and Instruction
		805 Education Administration and Supervision
		807 Educational Leadership
		810 Educational/Instructional Media Design
		812 Early Childhood Education
		814 Education Measurement and Statistics
		815 Education Statistics/ Research Methods
		820 Education Assessment, Testing, and Measurement
		822 Educational Psychology (See also 618)
		825 School Psychology (See also 636)
		830 Social/Philosophical Foundations of Education
		835 Special Education
		840 Counseling Education/ Counseling and Guidance Services
		845 Education Evaluation and Research
		850 Pre-elementary/Early Childhood Teacher Education

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		852 Elementary Teacher Education
		854 Junior High Teacher Education
		856 Secondary Teacher Education
		858 Adult and Continuing Teacher Education
		861 Art Education
		862 Business Education
		864 English Education
		866 Foreign Languages Education
		867 Physical Education, Health, and Recreation
		870 Home Economics Education
		876 Music Education
		880 Physical Education and Coaching
		882 Reading Education
		886 Speech Education
		888 Trade and Industrial Education
		889 Teacher Education, Specific Academic and Vocational Programs, Other
		898 Education, General
		899 Education, Other
		BUSINESS AND MANAGEMENT
		002 Agricultural Business and Management
		900 Accounting
		905 Banking/Financial Support Services
		910 Business Administration and Management
		915 Business/Managerial Economics

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		917 Management Information Systems/Business Data Processing 920 Marketing Management and Research 925 Business Statistics 930 Operations Research (See also 363, 465) 935 Organizational Behavior (See also 621) 938 Business Management/ Administrative Services, General 939 Business Management/ Administrative Services, Other **INFORMATION FIELDS (JOURNALISM, BROADCASTING, LIBRARIANSHIP)** 940 Communications Research 945 Journalism 947 Mass Communications 950 Radio and Television 957 Communication Theory 958 Communications, General 959 Communications, Other 972 Library Science **LAW** 968 Law **SOCIAL SERVICE PROFESSIONS** 980 Social Service Professions **VOCATIONAL STUDIES AND HOME ECONOMICS** 964 Home Economics

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–93	Fields of study from the Survey of Earned Doctorates classification
		OTHER NON-SCIENCE FIELDS
		974 Parks/Recreation/Leisure/ Fitness
		988 Professional Fields, General
		989 Professional Fields, Other
		999 Other Fields

Section C.

Statistical Charts

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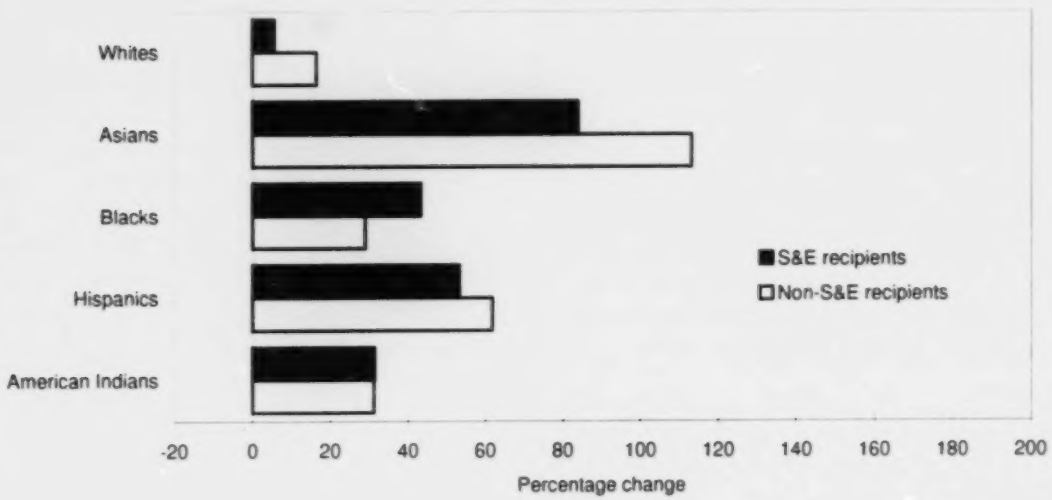
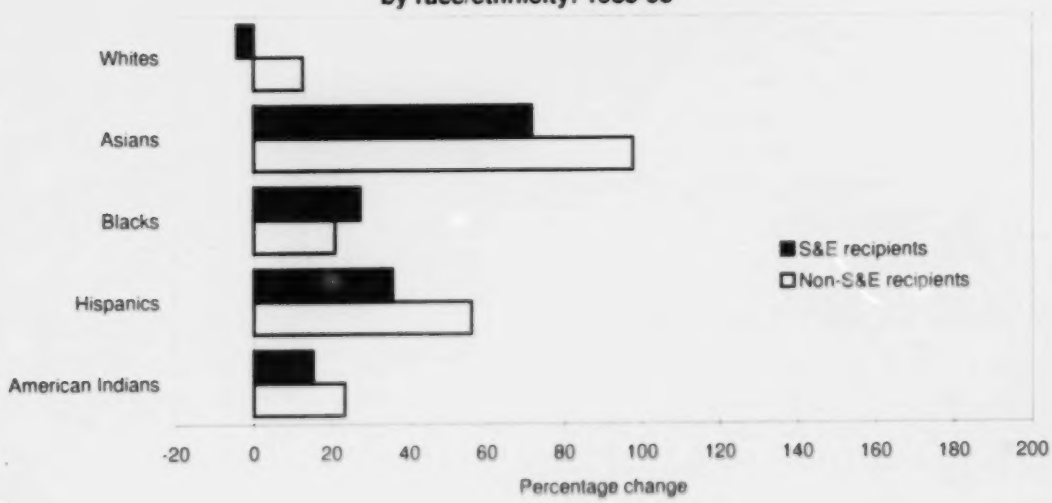


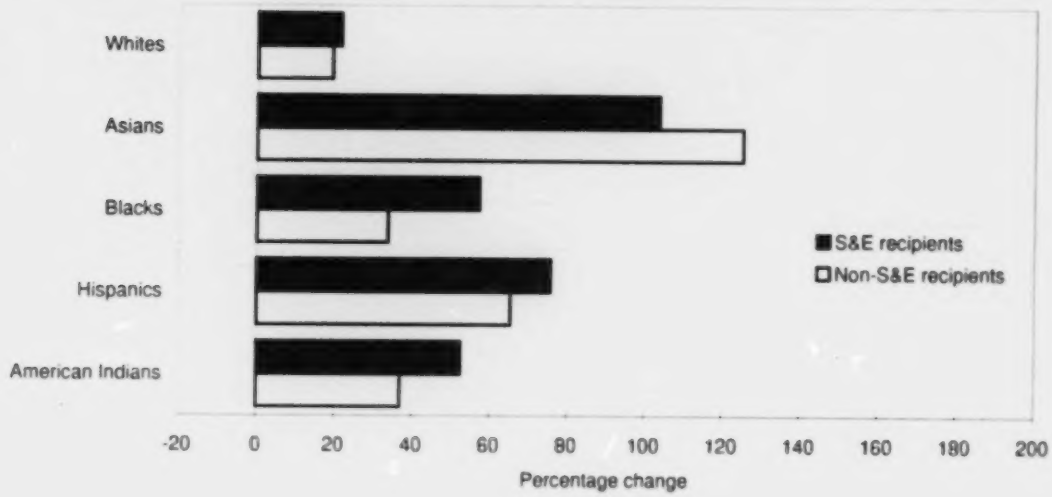
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

Chart 2. Percentage change in science and engineering (S&E) and non-S&E bachelor's degrees awarded to men, by race/ethnicity: 1985-93



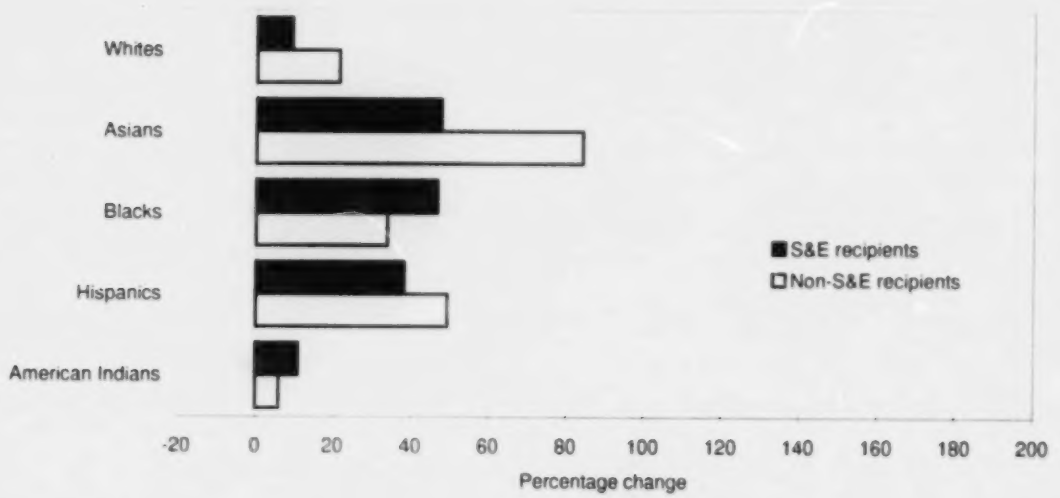
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

Chart 3. Percentage change in science and engineering (S&E) and non-S&E bachelor's degrees awarded to women, by race/ethnicity: 1985-93



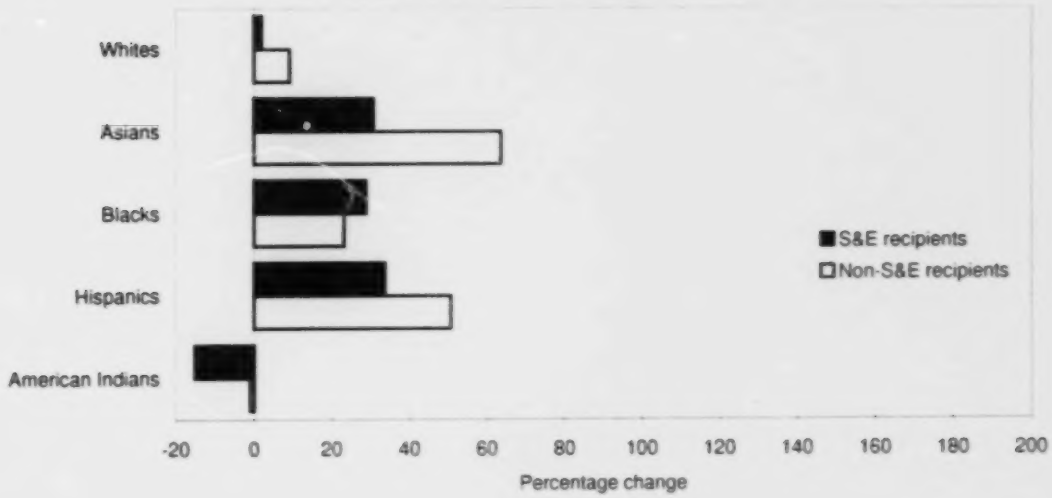
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

Chart 4. Percentage change in science and engineering (S&E) and non-S&E master's degrees, by race/ethnicity: 1985-93



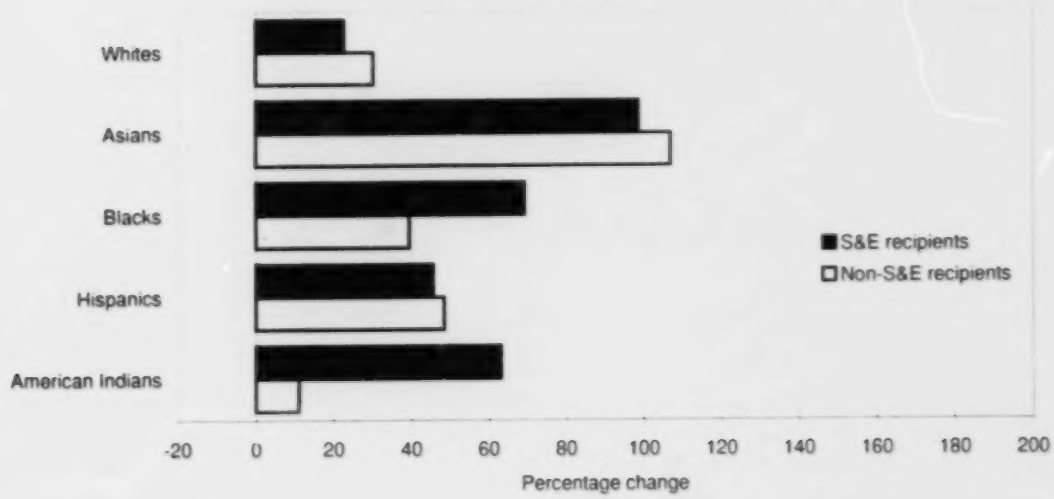
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

Chart 5. Percentage change in science and engineering (S&E) and non-S&E master's degrees awarded to men, by race/ethnicity: 1985-93



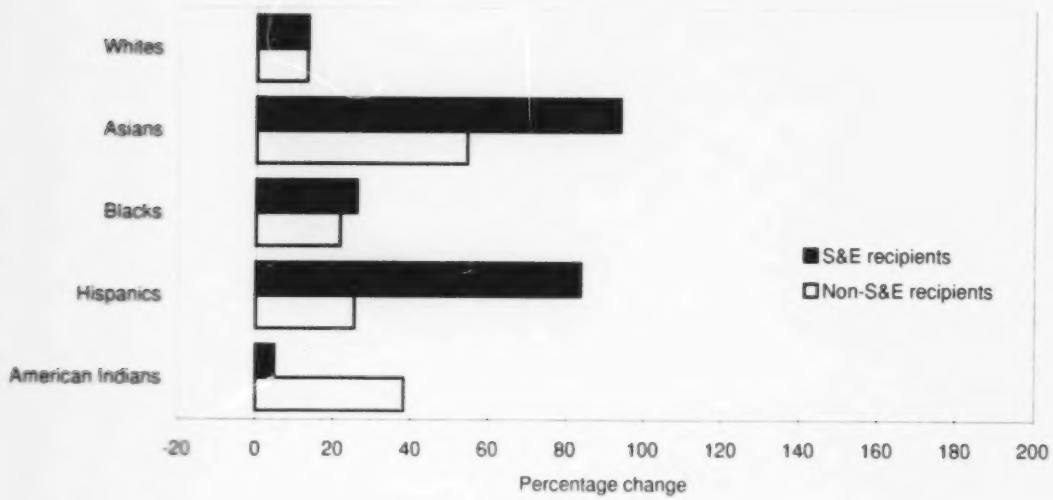
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

Chart 6. Percentage change in science and engineering (S&E) and non-S&E master's degrees awarded to women, by race/ethnicity: 1985-93



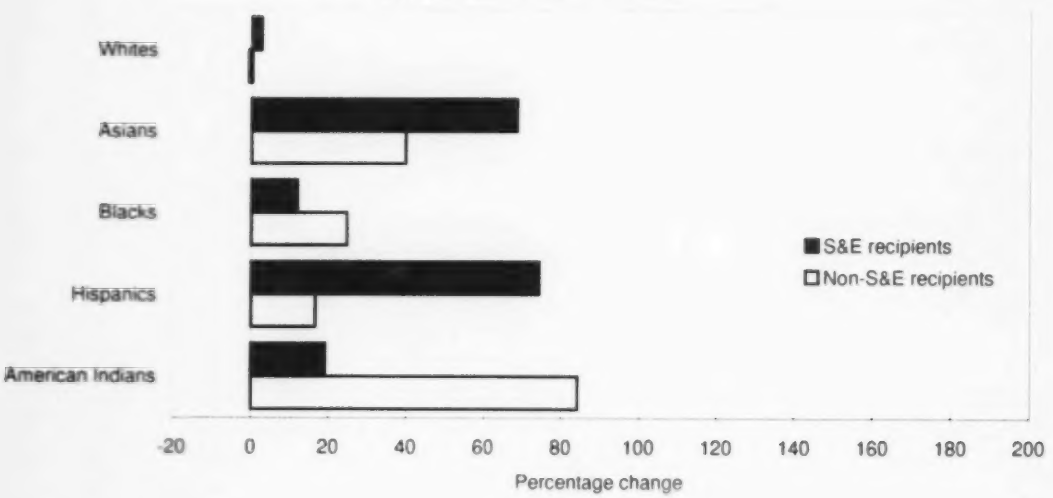
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

Chart 7. Percentage change in science and engineering (S&E) and non-S&E doctoral degrees, by race/ethnicity: 1985-93



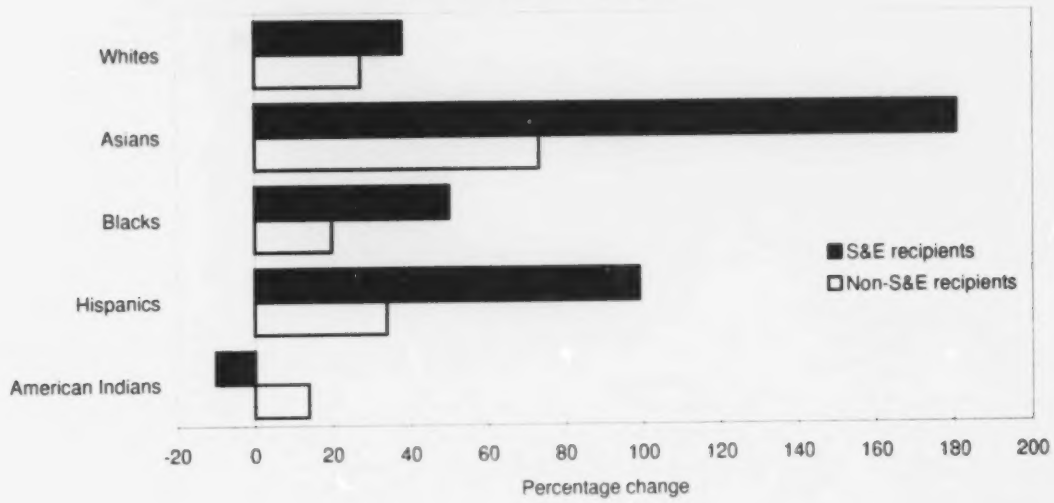
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Chart 8. Percentage change in science and engineering (S&E) and non-S&E doctoral degrees awarded to men, by race/ethnicity: 1985-93



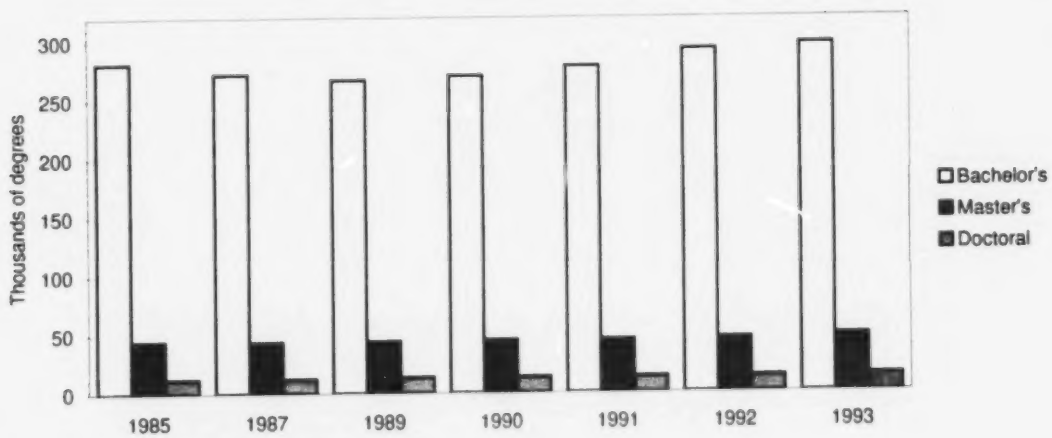
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Chart 9: Percentage change in science and engineering (S&E) and non-S&E doctoral degrees awarded to women, by race/ethnicity: 1985-93



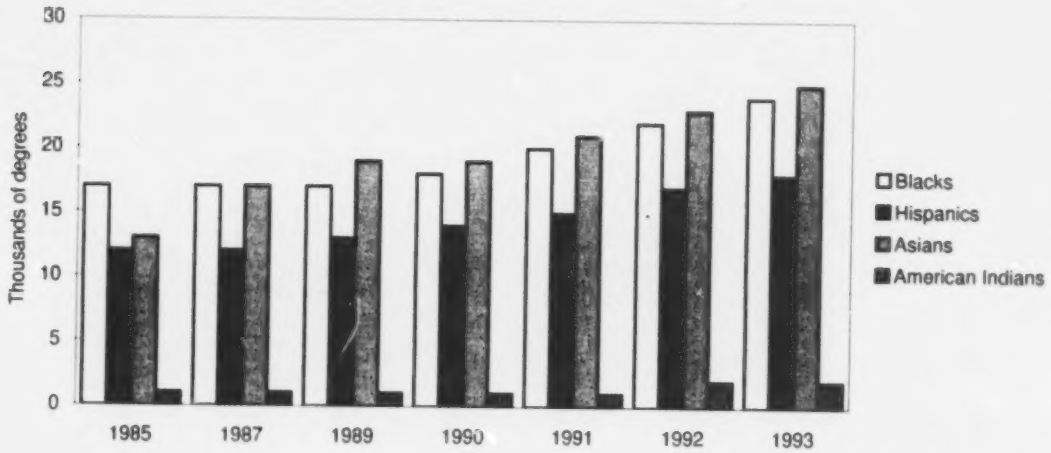
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Chart 10. Number of earned science and engineering degrees awarded to whites, by degree level: 1985-93



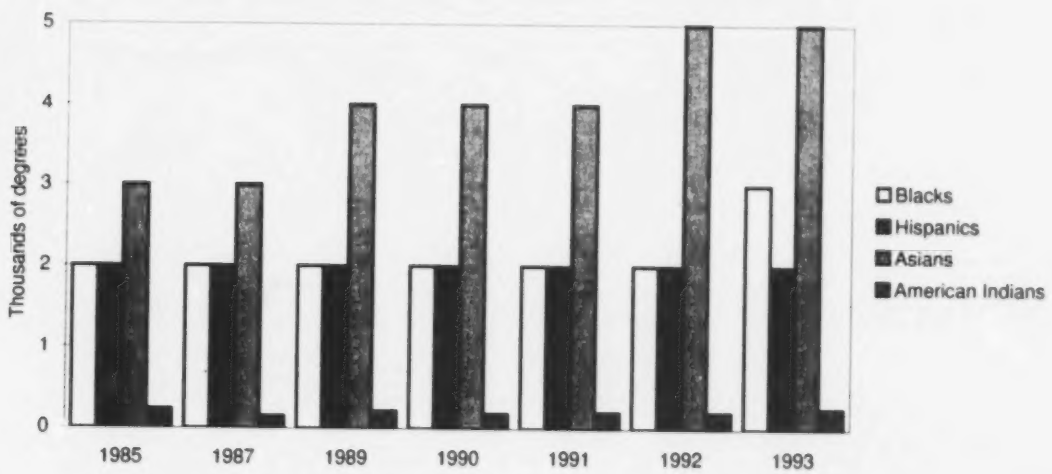
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93; doctoral data from NSF/SRS Survey of Earned Doctorates

Chart 11. Number of earned science and engineering bachelor's degrees awarded to minority groups: 1985-93



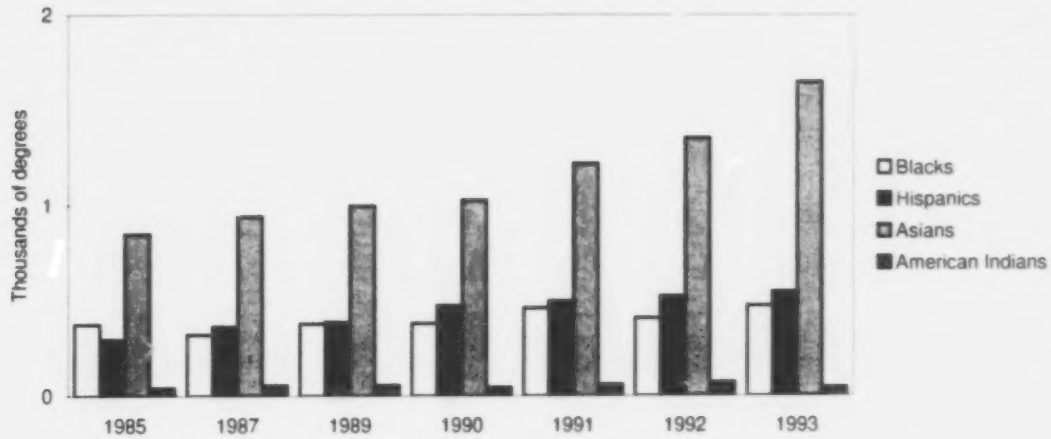
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

Chart 12. Number of earned science and engineering master's degrees awarded to minority groups: 1985-93



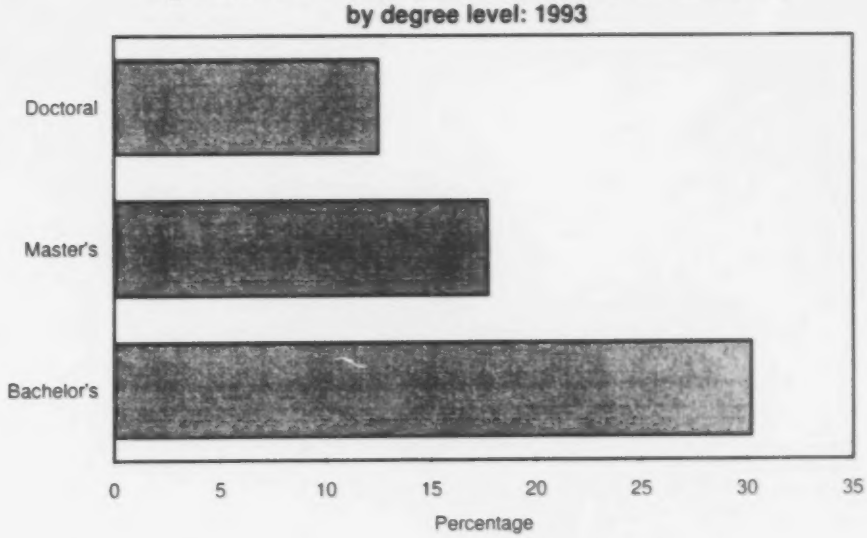
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93

Chart 13. Number of earned science and engineering doctoral degrees awarded to minority groups: 1985-93



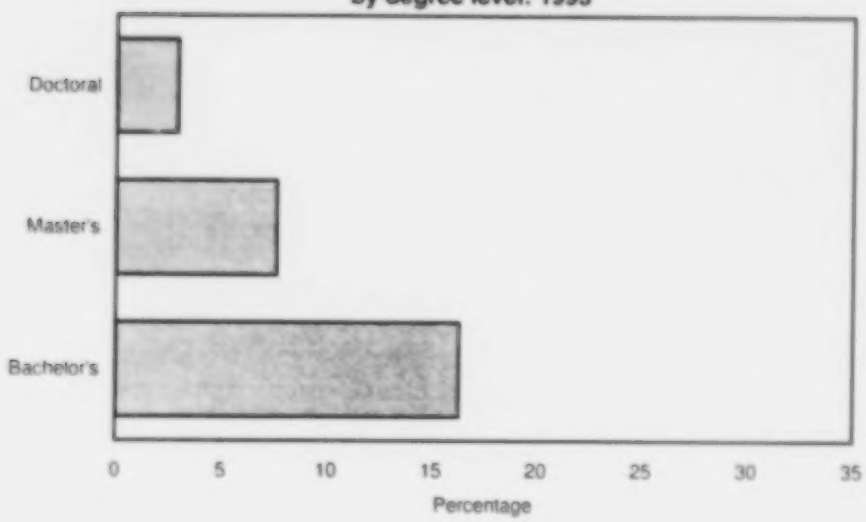
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Chart 14. Percentage of blacks earning science and engineering degrees from historically black colleges and universities, by degree level: 1993



SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93; doctoral data from NSF/SRS Survey of Earned Doctorates

Chart 15. Percentage of Hispanics earning science and engineering degrees from institutions in Puerto Rico, by degree level: 1993



SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Survey, 1985, and IPEDS Completions Surveys, 1987-93; doctoral data from NSF/SRS Survey of Earned Doctorates

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Table 1. Percentage distribution of earned bachelor's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1985-93, selected years

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
	Total						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	94.8	93.3	94.2	93.4	94.0	94.6	94.3
White, non-Hispanics	82.0	79.3	79.1	78.1	78.0	77.6	76.5
Asians	3.9	4.9	5.7	5.6	5.8	6.0	6.3
Underrepresented minorities, total	6.9	9.0	9.5	9.7	10.3	11.0	11.5
Black, non-Hispanics	5.0	5.0	5.2	5.3	5.6	6.0	6.3
Hispanics	3.5	3.6	3.9	4.0	4.3	4.6	4.7
American Indians or Alaskan Natives	.4	.4	.4	.4	.4	.4	.5
Nonresident aliens[2]	4.1	4.0	3.7	3.6	3.6	3.2	3.6
Unknown race/ethnicity or citizenship	1.1	2.7	2.1	3.0	2.4	2.1	2.1
	Men						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	93.7	92.5	93.5	92.6	93.1	93.8	93.5
White, non-Hispanics	82.4	79.9	79.8	78.9	78.8	78.5	77.5
Asians	3.9	5.0	5.8	5.8	5.9	6.3	6.6
Underrepresented minorities, total	7.3	7.5	7.9	8.0	8.5	9.0	9.4
Black, non-Hispanics	3.8	3.8	3.9	3.9	4.2	4.5	4.7
Hispanics	3.2	3.4	3.7	3.7	3.9	4.2	4.3
American Indians or Alaskan Natives	.4	.4	.3	.3	.3	.4	.4
Nonresident aliens[2]	5.1	4.9	4.6	4.5	4.5	4.0	4.4
Unknown race/ethnicity or citizenship	1.2	2.6	1.9	2.9	2.4	2.2	2.2
	Women						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	96.6	94.5	95.2	94.5	95.2	95.6	95.4
White, non-Hispanics	81.4	78.4	78.1	77.2	77.0	76.6	75.3
Asians	3.8	4.8	5.5	5.4	5.5	5.6	6.0
Underrepresented minorities, total	11.3	11.3	11.7	12.0	12.7	13.4	14.1
Black, non-Hispanics	6.9	6.9	7.0	7.1	7.4	7.8	8.2
Hispanics	4.0	4.0	4.3	4.4	4.8	5.2	5.3
American Indians or Alaskan Natives	.5	.4	.4	.4	.4	.5	.5
Nonresident aliens[2]	2.5	2.5	2.4	2.3	2.4	2.3	2.5
Unknown race/ethnicity or citizenship	.9	3.0	2.4	3.1	2.4	2.1	2.1

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Details may not sum to totals due to rounding.

Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

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Table 2. Percentage distribution of earned master's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1985-93, selected years

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
	Total						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	78.4	75.4	73.2	72.2	72.6	71.9	70.9
White, non-Hispanics	68.0	64.9	62.5	61.5	61.1	59.9	58.9
Asians	5.1	5.2	5.8	5.6	5.9	6.3	6.0
Underrepresented minorities, total	5.4	5.3	4.9	5.0	5.5	5.7	6.0
Black, non-Hispanics	2.7	2.7	2.3	2.6	2.9	3.1	3.1
Hispanics	2.3	2.4	2.3	2.2	2.4	2.4	2.6
American Indians or Alaskan Natives	.4	.2	.3	.3	.3	.3	.3
Nonresident aliens[2]	19.3	19.5	21.5	22.6	23.4	23.6	24.7
Unknown race/ethnicity or citizenship	2.3	5.1	5.3	5.2	4.0	4.5	4.4
	Men						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	74.5	71.9	69.2	68.3	68.5	67.8	66.6
White, non-Hispanics	64.4	61.7	58.9	58.3	57.9	56.5	55.5
Asians	5.5	5.6	6.2	5.8	6.2	6.6	6.1
Underrepresented minorities, total	4.6	4.7	4.2	4.1	4.5	4.7	5.0
Black, non-Hispanics	2.2	2.2	1.8	2.0	2.2	2.3	2.4
Hispanics	2.1	2.3	2.0	2.0	2.1	2.1	2.4
American Indians or Alaskan Natives	.3	.2	.3	.2	.2	.2	.2
Nonresident aliens[2]	22.9	23.1	25.2	26.2	27.4	27.5	28.9
Unknown race/ethnicity or citizenship	2.7	5.0	5.5	5.5	4.1	4.7	4.5
	Women						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	87.4	82.8	81.6	80.1	80.3	79.7	78.9
White, non-Hispanics	76.1	72.0	70.0	68.1	67.3	66.4	65.3
Asians	4.1	4.2	5.1	5.3	5.4	5.6	5.7
Underrepresented minorities, total	7.2	6.5	6.4	6.8	7.6	7.6	8.0
Black, non-Hispanics	3.9	3.8	3.4	3.8	4.2	4.5	4.6
Hispanics	2.9	2.5	2.7	2.6	3.0	2.8	3.0
American Indians or Alaskan Natives	.4	.2	.3	.4	.4	.3	.4
Nonresident aliens[2]	11.3	11.9	13.7	15.3	15.8	16.3	16.9
Unknown race/ethnicity or citizenship	1.4	5.3	4.7	4.6	3.9	4.1	4.2

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Details may not sum to totals due to rounding.

Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 3. Percentage distribution of earned doctoral degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1985-93, selected years

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
	Total						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	72.5	69.1	65.9	66.3	64.9	63.6	64.8
White, non-Hispanics	64.3	60.6	57.6	57.8	55.6	54.1	54.1
Asians	4.5	4.7	4.6	4.6	5.1	5.5	6.5
Underrepresented minorities, total	3.8	3.7	3.7	3.9	4.2	4.0	4.2
Black, non-Hispanics	2.0	1.6	1.7	1.7	1.9	1.6	1.9
Hispanics	1.6	1.8	1.8	2.1	2.1	2.1	2.1
American Indians or Alaskan Natives	.2	.3	.2	.2	.2	.3	.2
Nonresident aliens[2]	21.4	22.5	24.8	28.7	31.8	32.8	31.9
Unknown race/ethnicity or citizenship	6.1	8.5	9.3	5.0	3.3	3.6	3.4
	Men						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	68.5	64.3	60.6	60.8	58.8	57.8	58.8
White, non-Hispanics	60.7	56.4	52.7	52.7	50.3	49.1	49.1
Asians	4.7	4.8	4.8	4.8	4.9	5.3	6.2
Underrepresented minorities, total	3.1	3.0	3.1	3.3	3.6	3.4	3.4
Black, non-Hispanics	1.7	1.3	1.4	1.4	1.6	1.4	1.5
Hispanics	1.3	1.5	1.5	1.8	1.8	1.8	1.8
American Indians or Alaskan Natives	.1	.2	.2	.2	.2	.2	.1
Nonresident aliens[2]	25.2	26.8	29.5	33.9	37.5	38.3	37.4
Unknown race/ethnicity or citizenship	6.2	8.9	9.9	5.3	3.6	3.8	3.8
	Women						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	84.0	82.1	79.6	80.6	79.8	78.0	78.7
White, non-Hispanics	74.5	72.2	70.3	71.1	68.5	66.5	65.7
Asians	3.9	4.4	4.0	4.1	5.5	5.8	7.0
Underrepresented minorities, total	5.6	5.5	5.4	5.4	5.7	5.7	5.9
Black, non-Hispanics	2.8	2.5	2.5	2.3	2.8	2.3	2.7
Hispanics	2.3	2.7	2.5	2.8	2.7	3.0	3.0
American Indians or Alaskan Natives	.4	.4	.3	.3	.3	.4	.2
Nonresident aliens[2]	10.3	10.6	12.8	15.4	17.7	19.1	19.0
Unknown race/ethnicity or citizenship	5.7	7.3	7.6	4.0	2.5	2.9	2.3

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTE: Details may not sum to totals due to rounding.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

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Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all recipients						
Total science and engineering	342,970	343,070	337,431	345,793	356,785	376,933	388,435
Engineering	77,571	74,423	66,947	64,703	62,186	61,898	62,670
Sciences	265,399	268,647	270,484	281,090	294,599	315,035	325,765
Natural sciences	130,058	125,371	109,350	105,234	105,595	111,108	116,742
Physical science[1]	23,847	20,155	17,329	16,203	16,407	17,076	17,691
Mathematical science	15,267	16,515	15,314	14,674	14,784	14,851	14,870
Computer science	39,121	39,927	30,963	27,695	25,410	24,854	24,477
Biological science	39,405	39,047	36,949	38,040	40,351	43,835	47,877
Agricultural science	12,418	9,727	8,795	8,622	8,643	10,492	11,827
Social sciences	135,341	143,276	161,134	175,856	189,004	203,927	209,023
Social science	95,104	100,081	112,180	121,838	130,111	139,884	141,772
Psychology	40,237	43,195	48,954	54,018	58,893	64,043	67,251
Non-S&E[2]	647,907	660,462	692,740	716,358	751,212	773,139	790,843
Grand total	990,877	1,003,532	1,030,171	1,062,151	1,107,997	1,150,072	1,179,278
	White, non-Hispanics						
Total science and engineering	281,394	272,090	266,862	270,225	278,190	292,614	297,171
Engineering	60,992	56,491	50,081	47,494	45,162	45,026	44,853
Sciences	220,402	215,599	216,781	222,731	233,028	247,588	252,318
Natural sciences	107,076	98,344	84,578	80,210	80,111	84,133	87,401
Physical science[1]	20,541	16,653	14,238	13,055	13,145	13,678	13,941
Mathematical science	12,163	13,265	12,287	11,765	11,649	11,723	11,669
Computer science	31,321	29,181	21,711	18,918	17,349	16,844	16,155
Biological science	31,818	30,549	28,404	28,814	30,264	32,506	35,080
Agricultural science	11,233	8,696	7,938	7,658	7,704	9,382	10,556
Social sciences	113,326	117,255	132,203	142,521	152,917	163,455	164,917
Social science	79,367	81,494	91,697	98,385	104,783	111,389	111,154
Psychology	33,959	35,761	40,506	44,136	48,134	52,066	53,763
Non-S&E[2]	544,962	547,387	573,464	586,461	614,173	628,839	634,432
Grand total	826,356	819,477	840,326	856,686	892,363	921,453	931,603
	Asians						
Total science and engineering	13,323	16,934	19,138	19,437	20,552	22,635	24,504
Engineering	4,482	5,590	6,075	6,012	6,220	6,265	6,407
Sciences	8,841	11,344	13,063	13,425	14,332	16,370	18,097
Natural sciences	5,809	7,130	7,260	7,326	7,595	8,496	9,524
Physical science[1]	763	894	922	937	983	1,001	1,098
Mathematical science	885	1,034	1,019	874	915	857	915
Computer science	2,044	2,455	2,268	2,144	2,010	2,082	2,245
Biological science	1,952	2,565	2,907	3,245	3,559	4,402	5,103
Agricultural science	165	182	144	126	128	154	163
Social sciences	3,032	4,214	5,803	6,099	6,737	7,874	8,573
Social science	2,187	3,060	4,228	4,469	4,852	5,724	6,035
Psychology	845	1,154	1,575	1,630	1,885	2,150	2,538
Non-S&E[2]	12,239	14,987	18,435	18,590	21,173	23,981	26,083
Grand total	25,562	31,921	37,573	38,027	41,725	46,616	50,587

See explanatory information and SOURCES at end of table.

Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Underrepresented minorities, total						
Total science and engineering	30,455	30,939	31,950	33,419	36,682	41,383	44,682
Engineering	4,435	5,079	4,805	4,729	4,953	5,277	5,714
Sciences	26,020	25,860	27,145	28,690	31,729	36,106	38,968
Natural sciences	10,879	11,607	10,830	10,530	10,990	11,722	12,510
Physical science [1]	1,588	1,480	1,322	1,245	1,355	1,425	1,528
Mathematical science	1,164	1,207	1,218	1,178	1,334	1,432	1,490
Computer science	3,327	4,307	3,742	3,416	3,292	3,342	3,390
Biological science	4,277	4,180	4,151	4,243	4,551	5,043	5,602
Agricultural science	523	433	397	448	428	480	500
Social sciences	15,141	14,253	16,315	18,160	20,769	24,384	26,458
Social science	10,539	9,920	11,212	12,394	14,100	16,647	17,918
Psychology	4,602	4,333	5,103	5,766	6,669	7,737	8,540
Non-S&E [2]	67,745	66,226	70,215	73,958	81,840	88,065	95,404
Grand total	98,200	97,165	102,165	107,377	118,522	129,448	140,086
	Black, non-Hispanics						
Total science and engineering	17,040	17,230	17,385	18,230	19,987	22,431	24,421
Engineering	2,039	2,315	2,087	2,072	2,229	2,362	2,577
Sciences	15,001	14,915	15,318	16,158	17,758	20,069	21,844
Natural sciences	6,009	6,524	6,005	5,782	5,834	6,401	6,972
Physical science [1]	830	823	697	650	753	816	836
Mathematical science	770	834	792	720	811	904	965
Computer science	2,143	2,820	2,457	2,247	1,997	2,090	2,213
Biological science	2,047	1,890	1,916	1,994	2,111	2,385	2,739
Agricultural science	219	157	143	171	162	206	219
Social sciences	8,992	8,391	9,313	10,376	11,924	13,668	14,872
Social science	6,325	5,940	6,570	7,226	8,236	9,489	10,254
Psychology	2,667	2,451	2,743	3,150	3,688	4,179	4,618
Non-S&E [2]	40,523	37,873	39,452	41,071	45,022	48,880	52,246
Grand total	57,563	55,103	56,837	59,301	65,009	71,311	76,667
	Hispanics						
Total science and engineering	12,031	12,419	13,327	13,918	15,351	17,391	18,442
Engineering	2,187	2,554	2,561	2,511	2,566	2,733	2,961
Sciences	9,844	9,865	10,766	11,407	12,785	14,658	15,481
Natural sciences	4,359	4,660	4,417	4,357	4,705	4,892	5,034
Physical science [1]	660	585	563	522	533	546	599
Mathematical science	335	321	373	413	480	482	470
Computer science	1,045	1,375	1,195	1,085	1,215	1,173	1,096
Biological science	2,069	2,146	2,090	2,119	2,264	2,477	2,652
Agricultural science	250	233	196	218	213	214	217
Social sciences	5,485	5,205	6,349	7,050	8,080	9,766	10,447
Social science	3,751	3,503	4,197	4,645	5,334	6,519	6,860
Psychology	1,734	1,702	2,152	2,405	2,746	3,247	3,587
Non-S&E [2]	24,360	25,777	28,034	29,946	33,676	35,616	39,403
Grand total	36,391	38,196	41,361	43,864	49,027	53,007	57,845

See explanatory information and SOURCES at end of table.

Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	American Indians or Alaskan Natives						
Total science and engineering	1,384	1,290	1,238	1,271	1,344	1,561	1,819
Engineering	209	210	177	146	158	182	176
Sciences	1,175	1,080	1,061	1,125	1,186	1,379	1,643
Natural sciences	511	423	408	391	421	429	504
Physical science[1]	98	72	62	73	69	63	93
Mathematical science	59	52	53	45	43	46	55
Computer science	139	112	90	84	80	79	81
Biological science	161	144	145	130	176	181	211
Agricultural science	54	43	58	59	53	60	64
Social sciences	664	657	653	734	765	950	1,139
Social science	463	477	445	523	530	639	804
Psychology	201	180	208	211	235	311	335
Non-S&E[2]	2,862	2,576	2,729	2,941	3,142	3,569	3,755
Grand total	4,246	3,866	3,967	4,212	4,486	5,130	5,574
	U.S. citizens and permanent residents, total						
Total science and engineering	325,172	319,963	317,950	323,081	335,424	356,632	366,357
Engineering	69,909	67,160	60,961	58,235	56,335	56,568	56,974
Sciences	255,263	252,803	256,989	264,846	279,089	300,064	309,383
Natural sciences	123,764	117,081	102,668	98,066	98,666	104,351	109,435
Physical science[1]	22,892	19,027	16,482	15,237	15,483	16,104	16,567
Mathematical science	14,212	15,506	14,524	13,817	13,898	14,012	14,074
Computer science	36,692	35,943	27,721	24,478	22,651	22,268	21,790
Biological science	38,047	37,294	35,462	36,302	38,374	41,951	45,785
Agricultural science	11,921	9,311	8,479	8,232	8,260	10,016	11,219
Social sciences	131,499	135,722	154,321	166,780	180,423	195,713	199,948
Social science	92,093	94,474	107,137	115,248	123,735	133,760	135,107
Psychology	39,406	41,248	47,184	51,532	56,688	61,953	64,841
Non-S&E[2]	624,946	628,600	662,114	679,009	717,186	740,885	755,919
Grand total	950,118	948,563	980,064	1,002,090	1,052,610	1,097,517	1,122,276
	Nonresident aliens[3]						
Total science and engineering	14,071	13,677	12,323	12,318	12,724	12,238	13,802
Engineering	6,190	5,889	5,072	4,917	4,582	4,223	4,505
Sciences	7,881	7,788	7,251	7,401	8,142	8,015	9,297
Natural sciences	5,011	5,019	4,422	4,326	4,556	4,369	5,086
Physical science[1]	780	635	605	595	608	607	764
Mathematical science	763	655	543	524	578	592	552
Computer science	2,116	2,578	2,135	2,066	2,037	1,974	2,204
Biological science	915	862	873	867	1,063	993	1,217
Agricultural science	437	289	266	274	270	203	349
Social sciences	2,870	2,769	2,829	3,075	3,586	3,646	4,211
Social science	2,327	2,275	2,318	2,550	2,895	2,982	3,381
Psychology	543	494	511	525	691	664	830
Non-S&E[2]	15,187	14,915	14,134	14,235	16,933	16,309	18,569
Grand total	29,258	28,592	26,457	26,553	29,657	28,547	32,371

See explanatory information and SOURCES at end of table.

Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Unknown race/ethnicity or citizenship						
Total science and engineering	3,727	9,430	7,158	10,394	8,637	8,063	8,276
Engineering	1,472	1,374	914	1,551	1,269	1,107	1,191
Sciences	2,255	8,056	6,244	8,843	7,368	6,956	7,085
Natural sciences	1,283	3,271	2,260	2,842	2,373	2,388	2,221
Physical science[1]	175	493	242	371	316	365	360
Mathematical science	292	354	247	333	308	247	244
Computer science	313	1,406	1,107	1,151	722	612	483
Biological science	443	891	614	871	914	891	875
Agricultural science	60	127	50	116	113	273	259
Social sciences	972	4,785	3,984	6,001	4,995	4,568	4,864
Social science	684	3,332	2,725	4,040	3,481	3,142	3,284
Psychology	288	1,453	1,259	1,961	1,514	1,426	1,580
Non-S&E[2]	7,774	16,947	16,492	23,114	17,093	15,945	16,355
Grand total	11,501	26,377	23,650	33,508	25,730	24,008	24,631

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

3 Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all recipients						
Total science and engineering	210,347	207,455	198,728	199,916	201,499	209,270	214,388
Engineering	66,326	63,020	56,759	54,730	52,522	52,270	52,696
Sciences	144,021	144,435	141,969	145,186	148,977	157,000	161,692
Natural sciences	78,568	75,630	65,875	62,518	62,091	64,678	67,855
Physical science[1]	17,149	14,422	12,157	11,109	11,199	11,466	11,877
Mathematical science	8,231	8,833	8,264	7,863	7,804	7,923	7,859
Computer science	24,690	26,038	21,418	19,321	17,896	17,670	17,565
Biological science	20,435	20,039	18,295	18,631	19,715	21,107	23,111
Agricultural science	8,063	6,298	5,741	5,594	5,477	6,512	7,443
Social sciences	65,453	68,805	76,094	82,668	86,886	92,322	93,837
Social science	52,638	55,406	61,803	67,269	70,731	75,185	75,808
Psychology	12,815	13,399	14,291	15,399	16,155	17,137	18,029
Non-S&E[2]	276,313	277,548	288,838	295,951	307,453	316,125	323,148
Grand total	486,660	485,003	487,566	495,867	508,952	525,395	537,536
	White, non-Hispanics						
Total science and engineering	173,396	165,825	158,590	157,675	158,687	164,220	166,063
Engineering	52,167	48,015	42,779	40,533	38,692	38,513	38,244
Sciences	121,229	117,810	115,811	117,142	119,995	125,707	127,819
Natural sciences	65,695	60,575	52,132	48,848	48,304	50,126	52,048
Physical science[1]	14,980	12,139	10,173	9,179	9,203	9,430	9,614
Mathematical science	6,509	7,050	6,598	6,253	6,119	6,255	6,131
Computer science	20,188	19,793	15,799	13,974	12,916	12,571	12,329
Biological science	16,809	15,985	14,377	14,488	15,174	16,030	17,293
Agricultural science	7,209	5,608	5,185	4,954	4,892	5,840	6,681
Social sciences	55,534	57,235	63,679	68,294	71,691	75,581	75,771
Social science	44,665	46,066	51,766	55,662	58,414	61,574	61,269
Psychology	10,969	11,169	11,913	12,632	13,277	14,007	14,502
Non-S&E[2]	231,800	230,712	239,962	243,349	252,058	258,297	261,177
Grand total	405,196	396,537	398,552	401,024	410,745	422,517	427,240
	Asians						
Total science and engineering	8,229	10,445	11,578	11,528	11,942	13,198	14,132
Engineering	3,641	4,522	4,936	4,827	4,969	5,067	5,130
Sciences	4,588	5,923	6,642	6,701	6,973	8,131	9,002
Natural sciences	3,245	4,029	4,073	4,054	4,149	4,783	5,380
Physical science[1]	504	598	626	592	606	615	675
Mathematical science	474	532	527	491	482	486	502
Computer science	1,158	1,490	1,420	1,335	1,268	1,373	1,492
Biological science	1,024	1,314	1,442	1,573	1,736	2,230	2,633
Agricultural science	85	95	58	63	57	79	78
Social sciences	1,343	1,894	2,569	2,647	2,824	3,348	3,622
Social science	1,058	1,489	2,065	2,156	2,260	2,728	2,884
Psychology	285	405	504	491	564	620	738
Non-S&E[2]	5,404	6,459	7,625	7,569	8,831	9,992	10,687
Grand total	13,633	16,904	19,203	19,097	20,773	23,190	24,819

See explanatory information and SOURCES at end of table.

Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Underrepresented minorities, total						
Total science and engineering	15,459	15,598	15,672	15,954	17,027	18,890	20,160
Engineering	3,511	3,886	3,638	3,574	3,654	3,952	4,261
Sciences	11,948	11,712	12,034	12,380	13,373	14,938	15,899
Natural sciences	5,515	5,699	5,411	5,043	5,226	5,450	5,766
Physical science[1]	963	855	771	655	755	745	792
Mathematical science	601	627	636	614	657	675	744
Computer science	1,694	2,111	2,013	1,797	1,758	1,864	1,802
Biological science	1,892	1,818	1,734	1,685	1,799	1,885	2,130
Agricultural science	365	288	257	292	257	281	298
Social sciences	6,433	6,013	6,623	7,337	8,147	9,488	10,133
Social science	5,065	4,776	5,286	5,788	6,442	7,590	8,013
Psychology	1,368	1,237	1,337	1,549	1,705	1,898	2,120
Non-S&E[2]	25,728	24,756	25,978	27,093	29,887	31,805	34,440
Grand total	41,187	40,354	41,650	43,047	46,914	50,695	54,600
	Black, non-Hispanics						
Total science and engineering	7,926	7,886	7,685	7,830	8,448	9,375	10,099
Engineering	1,479	1,606	1,397	1,416	1,484	1,614	1,764
Sciences	6,447	6,280	6,288	6,414	6,964	7,761	8,335
Natural sciences	2,833	2,939	2,732	2,476	2,538	2,709	2,872
Physical science[1]	457	433	365	292	391	381	370
Mathematical science	376	399	374	342	380	374	444
Computer science	1,036	1,284	1,205	1,074	971	1,092	1,049
Biological science	806	723	700	658	696	749	883
Agricultural science	158	100	88	110	100	113	126
Social sciences	3,614	3,341	3,556	3,938	4,426	5,052	5,463
Social science	2,863	2,680	2,911	3,144	3,547	4,070	4,364
Psychology	751	661	645	794	879	982	1,099
Non-S&E[2]	15,114	14,056	14,228	14,760	15,790	17,143	18,275
Grand total	23,040	21,942	21,913	22,590	24,238	26,518	28,374
	Hispanics						
Total science and engineering	6,751	6,974	7,318	7,434	7,888	8,730	9,160
Engineering	1,863	2,100	2,100	2,035	2,039	2,187	2,355
Sciences	4,888	4,874	5,218	5,399	5,849	6,543	6,805
Natural sciences	2,380	2,516	2,432	2,328	2,458	2,497	2,608
Physical science[1]	441	377	362	311	318	326	361
Mathematical science	189	196	224	249	259	279	273
Computer science	582	766	750	669	738	724	700
Biological science	997	1,018	965	955	1,019	1,043	1,144
Agricultural science	171	159	131	144	124	125	130
Social sciences	2,508	2,358	2,786	3,071	3,391	4,046	4,197
Social science	1,966	1,845	2,153	2,384	2,634	3,220	3,269
Psychology	542	513	633	687	757	826	928
Non-S&E[2]	9,398	9,664	10,684	11,249	12,893	13,296	14,665
Grand total	16,149	16,638	18,002	18,683	20,781	22,026	23,825

See explanatory information and SOURCES at end of table.

Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	American Indians or Alaskan Natives						
Total science and engineering	782	738	669	690	691	785	901
Engineering	169	180	141	123	131	151	142
Sciences	613	558	528	567	560	634	759
Natural sciences	302	244	247	239	230	244	286
Physical science[1]	65	45	44	52	46	38	61
Mathematical science	36	32	38	23	18	22	27
Computer science	76	61	58	54	49	48	53
Biological science	89	77	69	72	84	93	103
Agricultural science	36	29	38	38	33	43	42
Social sciences	311	314	281	328	330	390	473
Social science	236	251	222	260	261	300	380
Psychology	75	63	59	68	69	90	93
Non S&E[2]	1,216	1,036	1,066	1,084	1,204	1,366	1,500
Grand total	1,998	1,774	1,735	1,774	1,895	2,151	2,401
	U.S. citizens and permanent residents, total						
Total science and engineering	197,084	191,868	185,840	185,157	187,656	196,308	200,355
Engineering	59,319	56,423	51,353	48,934	47,315	47,532	47,635
Sciences	137,765	135,445	134,487	136,223	140,341	148,776	152,720
Natural sciences	74,455	70,303	61,616	57,945	57,679	60,359	63,194
Physical science[1]	16,447	13,592	11,570	10,426	10,564	10,790	11,081
Mathematical science	7,584	8,209	7,761	7,358	7,258	7,416	7,377
Computer science	23,040	23,394	19,232	17,106	15,942	15,808	15,623
Biological science	19,725	19,117	17,553	17,746	18,709	20,145	22,056
Agricultural science	7,659	5,991	5,500	5,309	5,206	6,200	7,057
Social sciences	63,310	65,142	72,871	78,278	82,662	88,417	89,526
Social science	50,788	52,331	59,117	63,606	67,116	71,892	72,166
Psychology	12,522	12,811	13,754	14,672	15,546	16,525	17,360
Non S&E[2]	262,832	261,827	273,565	278,011	290,776	300,094	306,304
Grand total	460,016	453,795	459,405	463,168	478,432	496,402	506,659
	Nonresident aliens[3]						
Total science and engineering	10,733	10,266	9,043	8,936	8,983	8,341	9,394
Engineering	5,708	5,368	4,589	4,427	4,112	3,752	4,041
Sciences	5,025	4,898	4,444	4,509	4,871	4,589	5,353
Natural sciences	3,371	3,320	2,902	2,856	2,995	2,806	3,271
Physical science[1]	580	461	406	415	411	417	525
Mathematical science	476	421	347	324	374	358	345
Computer science	1,444	1,776	1,517	1,472	1,463	1,419	1,601
Biological science	504	433	426	431	544	479	569
Agricultural science	367	229	206	214	203	133	231
Social sciences	1,654	1,578	1,542	1,653	1,876	1,783	2,082
Social science	1,459	1,419	1,372	1,493	1,698	1,608	1,862
Psychology	195	159	170	160	178	175	220
Non S&E[2]	9,378	8,872	8,074	7,972	9,244	8,765	9,658
Grand total	20,111	19,138	17,117	16,908	18,227	17,106	19,052

See explanatory information and SOURCES at end of table.

Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Unknown race/ethnicity or citizenship						
Total science and engineering	2,530	5,321	3,845	5,823	4,860	4,621	4,639
Engineering	1,299	1,229	807	1,369	1,095	986	1,020
Sciences	1,231	4,092	3,038	4,454	3,765	3,635	3,619
Natural sciences	742	2,007	1,357	1,717	1,417	1,513	1,390
Physical science[1]	122	369	181	268	224	259	271
Mathematical science	171	203	156	181	172	149	137
Computer science	206	868	669	743	491	443	341
Biological science	206	489	316	454	462	483	486
Agricultural science	37	78	35	71	68	179	155
Social sciences	489	2,085	1,681	2,737	2,348	2,122	2,229
Social science	391	1,656	1,314	2,170	1,917	1,685	1,780
Psychology	98	429	367	567	431	437	449
Non-S&E[2]	4,003	6,749	7,199	9,968	7,433	7,266	7,186
Grand total	6,533	12,070	11,044	15,791	12,293	11,887	11,825

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all recipients						
Total science and engineering	132,623	135,615	138,703	145,877	155,286	167,663	174,047
Engineering	11,245	11,403	10,188	9,973	9,664	9,628	9,974
Sciences	121,378	124,212	128,515	135,904	145,622	158,035	164,073
Natural sciences	51,490	49,741	43,475	42,716	43,504	46,430	48,887
Physical science[1]	6,698	5,733	5,172	5,094	5,208	5,610	5,814
Mathematical science	7,036	7,682	7,050	6,811	6,980	6,928	7,011
Computer science	14,431	13,689	9,545	8,374	7,514	7,184	6,912
Biological science	18,970	19,008	18,654	19,409	20,636	22,728	24,766
Agricultural science	4,355	3,429	3,054	3,028	3,166	3,980	4,384
Social sciences	69,888	74,471	85,040	93,188	102,118	111,605	115,186
Social science	42,466	44,675	50,377	54,569	59,380	64,699	65,964
Psychology	27,422	29,796	34,663	38,619	42,738	46,906	49,222
Non S&E[2]	371,594	382,914	403,902	420,407	443,759	457,014	467,695
Grand total	504,217	518,529	542,605	566,284	599,045	624,677	641,742
	White, non-Hispanics						
Total science and engineering	107,998	106,265	108,272	112,550	119,503	128,394	131,108
Engineering	8,825	8,476	7,302	6,981	6,470	6,513	6,609
Sciences	99,173	97,789	100,970	105,589	113,033	121,881	124,499
Natural sciences	41,381	37,769	32,446	31,362	31,807	34,007	35,353
Physical science[1]	5,561	4,514	4,065	3,876	3,942	4,248	4,327
Mathematical science	5,654	6,215	5,689	5,512	5,530	5,468	5,538
Computer science	11,133	9,388	5,912	4,944	4,433	4,273	3,826
Biological science	15,008	14,564	14,027	14,326	15,090	16,476	17,787
Agricultural science	4,024	3,088	2,753	2,704	2,812	3,542	3,875
Social sciences	57,792	60,020	68,524	74,227	81,226	87,874	89,146
Social science	34,702	35,426	39,931	42,723	46,369	49,815	49,885
Psychology	23,090	24,592	28,593	31,504	34,857	38,059	39,261
Non S&E[2]	313,162	316,675	333,502	343,112	362,115	370,542	373,255
Grand total	421,160	422,940	441,774	455,662	481,618	498,936	504,363
	Asians						
Total science and engineering	5,094	6,489	7,560	7,909	8,610	9,437	10,372
Engineering	841	1,068	1,139	1,185	1,251	1,198	1,277
Sciences	4,253	5,421	6,421	6,724	7,359	8,239	9,095
Natural sciences	2,564	3,101	3,187	3,272	3,446	3,713	4,164
Physical science[1]	259	296	296	345	377	386	423
Mathematical science	411	502	492	383	433	371	413
Computer science	686	965	848	609	742	709	753
Biological science	926	1,251	1,465	1,672	1,823	2,172	2,470
Agricultural science	80	87	86	63	71	75	85
Social sciences	1,689	2,320	3,234	3,452	3,913	4,526	4,931
Social science	1,129	1,571	2,163	2,313	2,592	2,996	3,151
Psychology	560	749	1,071	1,139	1,321	1,530	1,800
Non S&E[2]	6,835	8,528	10,810	11,021	12,342	13,989	15,396
Grand total	11,929	15,017	18,370	18,930	20,952	23,426	25,768

See explanatory information and SOURCES at end of table.

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Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Underrepresented minorities, total						
Total science and engineering	14,996	15,341	16,278	17,465	19,655	22,493	24,522
Engineering	924	1,193	1,167	1,155	1,299	1,325	1,453
Sciences	14,072	14,148	15,111	16,310	18,356	21,168	23,069
Natural sciences	5,364	5,908	5,419	5,487	5,734	6,272	6,744
Physical science[1]	625	625	551	590	600	680	736
Mathematical science	563	580	582	564	677	757	746
Computer science	1,633	2,196	1,729	1,619	1,534	1,478	1,588
Biological science	2,385	2,362	2,417	2,558	2,752	3,158	3,472
Agricultural science	158	145	140	156	171	199	202
Social sciences	8,708	8,240	9,692	10,823	12,622	14,896	16,325
Social science	5,474	5,144	5,926	6,606	7,658	9,057	9,905
Psychology	3,234	3,096	3,766	4,217	4,964	5,839	6,420
Non-S&E[2]	42,017	41,470	44,237	46,865	51,953	56,260	60,964
Grand total	57,013	56,811	60,515	64,330	71,608	78,753	85,486
	Black, non-Hispanics						
Total science and engineering	9,114	9,344	9,700	10,400	11,539	13,056	14,322
Engineering	560	709	670	656	745	748	813
Sciences	8,554	8,635	9,030	9,744	10,794	12,308	13,509
Natural sciences	3,176	3,585	3,273	3,306	3,296	3,692	4,100
Physical science[1]	373	390	332	358	362	435	466
Mathematical science	394	435	418	378	431	530	521
Computer science	1,107	1,536	1,252	1,173	1,026	998	1,164
Biological science	1,241	1,167	1,216	1,336	1,415	1,636	1,856
Agricultural science	61	57	55	61	62	93	93
Social sciences	5,378	5,050	5,757	6,438	7,498	8,616	9,409
Social science	3,462	3,260	3,659	4,082	4,689	5,419	5,890
Psychology	1,916	1,790	2,098	2,356	2,809	3,197	3,519
Non-S&E[2]	25,409	23,817	25,224	26,311	29,232	31,737	33,971
Grand total	34,523	33,161	34,924	36,711	40,771	44,793	48,293
	Hispanics						
Total science and engineering	5,280	5,445	6,009	6,484	7,463	8,661	9,282
Engineering	324	454	461	476	527	546	606
Sciences	4,956	4,991	5,548	6,008	6,936	8,115	8,676
Natural sciences	1,979	2,144	1,985	2,029	2,247	2,395	2,426
Physical science[1]	219	208	201	211	215	220	238
Mathematical science	146	125	149	164	221	203	197
Computer science	463	609	445	416	477	449	396
Biological science	1,072	1,128	1,125	1,164	1,245	1,434	1,508
Agricultural science	79	74	65	74	89	89	87
Social sciences	2,977	2,847	3,563	3,979	4,689	5,720	6,250
Social science	1,785	1,658	2,044	2,261	2,700	3,299	3,591
Psychology	1,192	1,189	1,519	1,718	1,989	2,421	2,659
Non-S&E[2]	14,962	16,113	17,350	18,697	20,783	22,320	24,738
Grand total	20,242	21,558	23,359	25,181	28,246	30,981	34,020

See explanatory information and SOURCES at end of table.

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Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	American Indians or Alaskan Natives						
Total science and engineering	602	552	569	581	653	776	918
Engineering	40	30	36	23	27	31	34
Sciences	562	522	533	558	626	745	884
Natural sciences	209	179	161	152	191	185	218
Physical science[1]	33	27	18	21	23	25	32
Mathematical science	23	20	15	22	25	24	28
Computer science	63	51	32	30	31	31	28
Biological science	72	67	76	58	92	88	108
Agricultural science	18	14	20	21	20	17	22
Social sciences	353	343	372	406	435	560	666
Social science	227	226	223	263	269	339	424
Psychology	126	117	149	143	166	221	242
Non-S&E[2]	1,646	1,540	1,663	1,857	1,938	2,203	2,255
Grand total	2,248	2,092	2,232	2,438	2,591	2,979	3,173
	U.S. citizens and permanent residents, total						
Total science and engineering	128,088	128,095	132,110	137,924	147,768	160,324	166,002
Engineering	10,590	10,737	9,608	9,301	9,020	9,036	9,339
Sciences	117,498	117,358	122,502	128,623	138,748	151,288	156,663
Natural sciences	49,309	46,778	41,052	40,121	40,987	43,992	46,241
Physical science[1]	6,445	5,435	4,912	4,811	4,919	5,314	5,486
Mathematical science	6,628	7,297	6,763	6,459	6,640	6,596	6,697
Computer science	13,652	12,549	8,489	7,372	6,709	6,460	6,167
Biological science	18,322	18,177	17,909	18,556	19,665	21,806	23,729
Agricultural science	4,262	3,320	2,979	2,923	3,054	3,816	4,162
Social sciences	68,189	70,580	81,450	88,502	97,761	107,296	110,422
Social science	41,305	42,143	48,020	51,642	56,619	61,868	62,941
Psychology	26,884	28,437	33,430	36,860	41,142	45,428	47,481
Non-S&E[2]	362,014	366,673	388,549	400,998	426,410	440,791	449,615
Grand total	490,102	494,768	520,659	538,922	574,178	601,115	615,617
	Nonresident aliens[3]						
Total science and engineering	3,338	3,411	3,280	3,382	3,741	3,897	4,408
Engineering	482	521	473	490	470	471	464
Sciences	2,856	2,890	2,807	2,892	3,271	3,426	3,944
Natural sciences	1,640	1,699	1,520	1,470	1,561	1,563	1,815
Physical science[1]	200	174	199	180	197	190	239
Mathematical science	287	234	196	200	204	234	207
Computer science	672	802	618	594	574	555	603
Biological science	411	429	447	436	519	514	648
Agricultural science	70	60	60	60	67	70	118
Social sciences	1,216	1,191	1,287	1,422	1,710	1,863	2,129
Social science	868	856	946	1,057	1,197	1,374	1,519
Psychology	348	335	341	365	513	489	610
Non-S&E[2]	5,809	6,043	6,060	6,263	7,689	7,544	8,911
Grand total	9,147	9,454	9,340	9,645	11,430	11,441	13,319

See explanatory information and SOURCES at end of table.

Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Unknown race/ethnicity or citizenship						
Total science and engineering	1,197	4,109	3,313	4,571	3,777	3,442	3,637
Engineering	173	145	107	182	174	121	171
Sciences	1,024	3,964	3,206	4,389	3,603	3,321	3,466
Natural sciences	541	1,264	903	1,125	956	875	831
Physical science[1]	53	124	61	103	92	106	89
Mathematical science	121	151	91	152	136	98	107
Computer science	107	538	438	408	231	169	142
Biological science	237	402	298	417	452	408	389
Agricultural science	23	49	15	45	45	94	104
Social sciences	483	2,700	2,303	3,264	2,647	2,446	2,635
Social science	293	1,676	1,411	1,870	1,564	1,457	1,504
Psychology	190	1,024	892	1,394	1,083	989	1,131
Non-S&E[2]	3,771	10,198	9,293	13,146	9,660	8,679	9,169
Grand total	4,968	14,307	12,606	17,717	13,437	12,121	12,806

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all recipients						
Total science and engineering	64,726	66,774	70,333	72,228	72,828	76,184	81,415
Engineering	20,935	22,057	23,735	23,985	24,007	25,010	27,658
Sciences	43,791	44,717	46,598	48,243	48,821	51,174	53,757
Natural sciences	24,034	25,269	26,089	26,293	25,669	26,775	27,713
Physical science[1]	5,802	5,638	5,703	5,411	5,282	5,352	5,365
Mathematical science	2,888	3,327	3,430	3,684	3,632	4,019	4,084
Computer science	7,101	8,481	9,399	9,643	9,324	9,530	10,167
Biological science	5,091	4,999	4,953	4,893	4,806	4,816	4,796
Agricultural science	3,152	2,824	2,604	2,662	2,625	3,058	3,299
Social sciences	19,757	19,448	20,509	21,950	23,152	24,399	26,044
Social science	11,276	11,283	11,857	12,642	13,350	14,119	15,024
Psychology	8,481	8,165	8,652	9,308	9,802	10,280	11,020
Non-S&E[2]	222,487	223,758	240,717	252,719	265,670	278,023	289,558
Grand total	287,213	290,532	311,050	324,947	338,498	354,207	370,973
	White, non-Hispanics						
Total science and engineering	43,982	43,360	43,945	44,450	44,513	45,649	47,975
Engineering	12,186	12,837	12,832	12,859	12,635	12,752	13,920
Sciences	31,796	30,523	31,113	31,591	31,878	32,897	34,055
Natural sciences	16,735	15,352	16,080	15,742	15,005	15,136	15,322
Physical science[1]	4,133	3,834	3,766	3,401	3,129	3,067	3,078
Mathematical science	1,873	2,012	2,032	2,169	2,068	2,336	2,354
Computer science	4,303	4,717	4,786	4,851	4,637	4,407	4,464
Biological science	4,081	3,745	3,679	3,501	3,353	3,251	3,144
Agricultural science	2,345	2,044	1,817	1,820	1,818	2,075	2,282
Social sciences	15,061	14,171	15,033	15,849	16,873	17,761	18,733
Social science	7,841	7,473	7,958	8,360	8,900	9,523	9,923
Psychology	7,220	6,698	7,075	7,489	7,973	8,238	8,810
Non-S&E[2]	179,667	173,447	186,377	192,424	203,011	211,413	217,693
Grand total	223,649	216,807	230,322	236,874	247,524	257,062	265,668
	Asians						
Total science and engineering	3,285	3,455	4,100	4,055	4,310	4,763	4,846
Engineering	1,551	1,650	1,992	1,863	2,008	2,223	2,260
Sciences	1,734	1,805	2,108	2,192	2,302	2,540	2,586
Natural sciences	1,229	1,426	1,617	1,629	1,735	1,916	1,918
Physical science[1]	213	227	278	234	251	295	249
Mathematical science	164	183	178	184	189	201	197
Computer science	615	779	894	941	1,014	1,105	1,106
Biological science	179	190	223	225	231	264	305
Agricultural science	58	47	44	45	50	51	61
Social sciences	505	379	491	563	567	624	668
Social science	376	266	360	404	397	441	477
Psychology	129	113	131	159	170	183	191
Non-S&E[2]	4,520	4,674	6,074	5,939	6,760	7,530	8,323
Grand total	7,805	8,129	10,174	9,994	11,070	12,293	13,169

See explanatory information and SOURCES at end of table.

Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Underrepresented minorities, total						
Total science and engineering	3,484	3,515	3,446	3,615	4,026	4,360	4,899
Engineering	723	953	856	868	906	996	1,195
Sciences	2,761	2,562	2,590	2,747	3,120	3,364	3,704
Natural sciences	1,097	1,122	1,025	1,002	1,195	1,258	1,358
Physical science[1]	237	210	188	194	182	209	231
Mathematical science	115	136	99	127	194	147	184
Computer science	315	352	381	357	425	480	484
Biological science	308	304	267	244	286	307	312
Agricultural science	122	120	90	80	108	115	147
Social sciences	1,664	1,440	1,565	1,745	1,925	2,106	2,346
Social science	857	758	777	868	1,031	1,118	1,282
Psychology	807	682	788	877	894	988	1,064
Non-S&E[2]	19,463	18,488	19,224	20,403	22,640	24,544	26,713
Grand total	22,947	22,003	22,670	24,018	26,666	28,904	31,612
	Black, non-Hispanics						
Total science and engineering	1,742	1,784	1,652	1,847	2,090	2,356	2,554
Engineering	330	403	355	387	398	466	564
Sciences	1,412	1,381	1,297	1,460	1,692	1,890	1,990
Natural sciences	523	581	495	527	644	699	716
Physical science[1]	89	79	78	87	73	98	105
Mathematical science	53	73	59	70	100	77	98
Computer science	180	207	198	232	283	316	308
Biological science	151	167	124	110	137	149	135
Agricultural science	50	55	36	28	51	59	70
Social sciences	889	800	802	933	1,048	1,191	1,274
Social science	463	424	407	462	594	660	730
Psychology	426	376	395	471	454	531	544
Non-S&E[2]	12,218	11,389	11,803	12,626	13,767	15,064	16,343
Grand total	13,960	13,173	13,455	14,473	15,857	17,420	18,897
	Hispanics						
Total science and engineering	1,514	1,584	1,585	1,587	1,736	1,806	2,092
Engineering	346	512	468	446	468	488	581
Sciences	1,168	1,072	1,117	1,141	1,268	1,318	1,511
Natural sciences	481	493	444	431	494	503	574
Physical science[1]	127	122	92	98	96	93	114
Mathematical science	55	60	34	51	85	66	78
Computer science	94	123	144	118	128	149	162
Biological science	139	126	126	120	136	146	151
Agricultural science	66	62	48	44	49	49	69
Social sciences	687	579	673	710	774	815	937
Social science	343	308	313	341	383	396	474
Psychology	344	271	360	369	391	419	463
Non-S&E[2]	6,216	6,197	6,548	6,908	7,948	8,450	9,279
Grand total	7,730	7,781	8,133	8,495	9,684	10,256	11,371

See explanatory information and SOURCES at end of table

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Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	American Indians or Alaskan Natives						
Total science and engineering	228	147	209	181	200	198	253
Engineering	47	38	33	35	40	42	50
Sciences	181	109	176	146	160	156	203
Natural sciences	93	48	86	44	57	56	68
Physical science[1]	21	9	18	9	13	18	12
Mathematical science	7	3	6	6	9	4	8
Computer science	41	22	39	7	14	15	14
Biological science	18	11	17	14	13	12	26
Agricultural science	6	3	6	8	8	7	8
Social sciences	88	61	90	102	103	100	135
Social science	51	26	57	65	54	62	78
Psychology	37	35	33	37	49	38	57
Non-S&E[2]	1,029	902	873	869	925	1,030	1,091
Grand total	1,257	1,049	1,082	1,050	1,125	1,228	1,344
	U.S. citizens and permanent residents, total						
Total science and engineering	50,751	50,330	51,491	52,120	52,849	54,772	57,720
Engineering	14,460	15,440	15,680	15,590	15,549	15,971	17,375
Sciences	36,291	34,890	35,811	36,530	37,300	38,801	40,345
Natural sciences	19,061	18,900	18,722	18,373	17,935	18,310	18,598
Physical science[1]	4,583	4,271	4,232	3,829	3,562	3,571	3,558
Mathematical science	2,152	2,331	2,309	2,480	2,451	2,684	2,735
Computer science	5,233	5,848	6,061	6,149	6,076	5,992	6,054
Biological science	4,568	4,239	4,169	3,970	3,870	3,822	3,761
Agricultural science	2,525	2,211	1,951	1,945	1,976	2,241	2,490
Social sciences	17,230	15,990	17,089	18,157	19,365	20,491	21,747
Social science	9,074	8,497	9,095	9,632	10,328	11,082	11,682
Psychology	8,156	7,493	7,994	8,525	9,037	9,409	10,065
Non-S&E[2]	203,650	196,609	211,675	218,766	232,411	243,487	252,729
Grand total	254,401	246,939	263,166	270,886	285,260	298,259	310,449
	Nonresident aliens[3]						
Total science and engineering	12,506	13,045	15,143	16,338	17,049	18,007	20,150
Engineering	5,694	5,781	6,747	7,239	7,520	7,899	9,119
Sciences	6,812	7,264	8,396	9,099	9,529	10,108	11,031
Natural sciences	4,572	5,035	5,922	6,330	6,734	7,316	8,062
Physical science[1]	1,098	1,056	1,238	1,364	1,504	1,538	1,602
Mathematical science	685	836	976	1,035	1,059	1,112	1,138
Computer science	1,709	2,067	2,442	2,563	2,819	3,169	3,779
Biological science	474	509	636	729	749	795	849
Agricultural science	606	567	630	639	603	702	694
Social sciences	2,240	2,229	2,474	2,769	2,795	2,792	2,969
Social science	1,944	2,009	2,215	2,384	2,478	2,490	2,637
Psychology	296	220	259	385	317	302	332
Non-S&E[2]	14,446	15,219	16,980	18,264	20,562	21,645	23,959
Grand total	26,952	28,264	32,123	34,602	37,611	39,652	44,109

See explanatory information and SOURCES at end of table.

Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Unknown race/ethnicity or citizenship						
Total science and engineering	1,469	3,399	3,699	3,770	2,930	3,405	3,545
Engineering	781	836	1,308	1,156	938	1,140	1,164
Sciences	688	2,563	2,391	2,614	1,992	2,265	2,381
Natural sciences	401	1,334	1,445	1,590	1,000	1,149	1,053
Physical science[1]	121	311	233	218	216	243	205
Mathematical science	51	160	145	169	122	223	211
Computer science	159	566	836	931	429	369	334
Biological science	49	251	148	194	187	199	188
Agricultural science	21	46	23	78	46	115	115
Social sciences	287	1,229	946	1,024	992	1,116	1,328
Social science	258	777	547	626	544	547	705
Psychology	29	452	399	398	448	569	623
Non-S&E[2]	4,391	11,930	12,062	15,689	12,697	12,891	12,870
Grand total	5,860	15,329	15,761	19,459	15,627	16,296	16,415

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all recipients						
Total science and engineering	44,928	45,611	47,724	48,424	47,748	49,768	53,102
Engineering	18,692	19,290	20,654	20,717	20,650	21,345	23,565
Sciences	26,236	26,321	27,070	27,707	27,098	28,423	29,537
Natural sciences	16,300	16,714	17,250	17,258	16,530	17,480	18,076
Physical science[1]	4,450	4,225	4,180	3,981	3,825	3,895	3,803
Mathematical science	1,877	2,026	2,060	2,208	2,146	2,457	2,468
Computer science	5,064	5,985	6,773	6,968	6,563	6,884	7,411
Biological science	2,662	2,555	2,491	2,393	2,315	2,316	2,365
Agricultural science	2,247	1,923	1,746	1,708	1,681	1,928	2,029
Social sciences	9,936	9,607	9,820	10,449	10,568	10,943	11,461
Social science	6,872	6,769	7,006	7,424	7,574	7,939	8,419
Psychology	3,064	2,838	2,814	3,025	2,994	3,004	3,042
Non-S&E[2]	98,788	96,044	101,675	105,601	109,147	112,531	116,651
Grand total	143,716	141,655	149,399	154,025	156,895	162,299	169,753
	White, non-Hispanics						
Total science and engineering	28,918	28,120	28,115	28,250	27,634	28,113	29,493
Engineering	10,646	10,963	10,874	10,922	10,742	10,775	11,777
Sciences	18,272	17,157	17,241	17,328	16,892	17,338	17,716
Natural sciences	11,096	10,523	10,357	10,116	9,491	9,675	9,837
Physical science[1]	3,135	2,855	2,750	2,518	2,299	2,234	2,229
Mathematical science	1,170	1,187	1,173	1,275	1,169	1,389	1,332
Computer science	3,052	3,229	3,430	3,474	3,260	3,236	3,326
Biological science	2,126	1,932	1,830	1,711	1,629	1,566	1,593
Agricultural science	1,613	1,320	1,174	1,138	1,134	1,250	1,357
Social sciences	7,176	6,634	6,884	7,212	7,401	7,663	7,879
Social science	4,575	4,309	4,592	4,781	4,981	5,276	5,453
Psychology	2,601	2,325	2,292	2,431	2,420	2,387	2,426
Non-S&E[2]	77,149	71,939	75,927	77,825	80,283	82,684	84,224
Grand total	106,067	100,059	104,042	106,075	107,917	110,797	113,717
	Asians						
Total science and engineering	2,475	2,559	2,939	2,799	2,959	3,276	3,237
Engineering	1,374	1,455	1,699	1,557	1,685	1,816	1,819
Sciences	1,101	1,104	1,240	1,242	1,274	1,460	1,418
Natural sciences	804	908	990	976	1,031	1,169	1,149
Physical science[1]	154	164	179	140	165	206	150
Mathematical science	108	110	117	106	108	103	121
Computer science	414	522	565	609	627	705	710
Biological science	86	85	105	97	104	125	136
Agricultural science	42	27	24	24	27	30	32
Social sciences	297	196	250	266	243	291	269
Social science	249	163	206	224	196	229	219
Psychology	48	33	44	42	47	62	50
Non-S&E[2]	2,377	2,419	2,978	2,871	3,261	3,547	3,888
Grand total	4,852	4,978	5,917	5,670	6,220	6,823	7,125

See explanatory information and SOURCES at end of table.

Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Underrepresented minorities, total						
Total science and engineering	2,064	2,130	1,990	2,005	2,129	2,340	2,637
Engineering	621	791	685	687	711	775	924
Sciences	1,443	1,339	1,305	1,318	1,418	1,565	1,713
Natural sciences	670	688	639	610	664	728	764
Physical science[1]	175	140	133	130	124	144	142
Mathematical science	69	87	58	74	112	92	102
Computer science	201	236	255	238	244	283	308
Biological science	137	137	129	120	116	137	132
Agricultural science	88	88	64	48	68	72	80
Social sciences	773	651	666	708	754	837	949
Social science	478	427	416	429	482	556	672
Psychology	295	224	250	279	272	281	277
Non-S&E[2]	7,072	6,768	7,049	7,316	8,078	8,336	9,266
Grand total	9,136	8,898	9,039	9,321	10,207	10,676	11,903
	Black, non-Hispanics						
Total science and engineering	973	990	878	950	1,028	1,166	1,253
Engineering	274	315	262	287	299	332	407
Sciences	699	675	616	663	729	834	846
Natural sciences	300	338	290	307	338	382	386
Physical science[1]	61	45	56	61	43	66	58
Mathematical science	34	45	32	37	53	44	48
Computer science	108	126	119	140	150	175	193
Biological science	67	80	59	51	58	61	47
Agricultural science	30	42	24	18	34	36	40
Social sciences	399	337	326	356	391	452	460
Social science	253	221	206	223	262	315	345
Psychology	146	116	120	133	129	137	115
Non-S&E[2]	4,238	3,895	4,086	4,219	4,591	4,628	5,219
Grand total	5,211	4,885	4,964	5,169	5,619	5,794	6,472
	Hispanics						
Total science and engineering	939	1,045	970	959	992	1,066	1,255
Engineering	304	444	394	373	378	408	480
Sciences	635	601	576	586	614	658	775
Natural sciences	307	318	282	275	294	309	341
Physical science[1]	95	88	65	63	73	64	76
Mathematical science	31	41	21	33	52	47	50
Computer science	65	91	100	93	84	98	104
Biological science	62	53	62	61	54	69	76
Agricultural science	54	45	34	25	31	31	35
Social sciences	328	283	294	311	320	349	434
Social science	195	187	176	178	196	218	282
Psychology	133	96	118	133	124	131	152
Non-S&E[2]	2,403	2,476	2,627	2,754	3,132	3,315	3,620
Grand total	3,342	3,521	3,597	3,713	4,124	4,381	4,875

See explanatory information and SOURCES at end of table

Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	American Indians or Alaskan Natives						
Total science and engineering	152	95	142	96	109	108	129
Engineering	43	32	29	27	34	35	37
Sciences	109	63	113	69	75	73	92
Natural sciences	63	32	67	28	32	37	37
Physical science[1]	19	7	12	6	8	14	8
Mathematical science	4	1	5	4	7	1	4
Computer science	28	19	36	5	10	10	11
Biological science	8	4	8	8	4	7	9
Agricultural science	4	1	6	5	3	5	5
Social sciences	46	31	46	41	43	36	55
Social science	30	19	34	28	24	23	45
Psychology	16	12	12	13	19	13	10
Non-S&E[2]	431	397	336	343	355	393	427
Grand total	583	492	478	439	464	501	556
	U.S. citizens and permanent residents, total						
Total science and engineering	33,457	32,809	33,044	33,054	32,722	33,729	35,367
Engineering	12,641	13,209	13,258	13,166	13,138	13,366	14,520
Sciences	20,816	19,600	19,786	19,888	19,584	20,363	20,847
Natural sciences	12,570	12,119	11,986	11,702	11,186	11,572	11,750
Physical science[1]	3,464	3,159	3,062	2,788	2,588	2,584	2,521
Mathematical science	1,347	1,384	1,348	1,455	1,389	1,584	1,555
Computer science	3,667	3,987	4,250	4,321	4,131	4,224	4,344
Biological science	2,349	2,154	2,064	1,928	1,849	1,828	1,861
Agricultural science	1,743	1,435	1,262	1,210	1,229	1,352	1,469
Social sciences	8,246	7,481	7,800	8,186	8,398	8,791	9,097
Social science	5,302	4,899	5,214	5,434	5,659	6,061	6,344
Psychology	2,944	2,582	2,586	2,752	2,739	2,730	2,753
Non-S&E[2]	86,598	81,126	85,954	88,012	91,622	94,567	97,378
Grand total	120,055	113,935	118,998	121,066	124,344	128,296	132,745
	Nonresident aliens[3]						
Total science and engineering	10,278	10,518	12,043	12,702	13,081	13,705	15,365
Engineering	5,342	5,344	6,208	6,543	6,673	6,995	8,023
Sciences	4,936	5,174	5,835	6,159	6,408	6,710	7,342
Natural sciences	3,434	3,678	4,265	4,439	4,691	5,087	5,572
Physical science[1]	889	834	954	1,028	1,070	1,111	1,118
Mathematical science	499	544	632	649	683	712	751
Computer science	1,269	1,575	1,848	1,933	2,144	2,380	2,811
Biological science	286	268	357	379	370	385	406
Agricultural science	491	457	474	450	424	499	486
Social sciences	1,502	1,496	1,570	1,720	1,717	1,623	1,770
Social science	1,384	1,407	1,471	1,584	1,613	1,528	1,659
Psychology	118	89	99	136	104	95	111
Non-S&E[2]	9,396	9,801	10,579	10,997	12,069	12,532	13,456
Grand total	19,674	20,319	22,622	23,699	25,150	26,237	28,821

See explanatory information and SOURCES at end of table.

Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Unknown race/ethnicity or citizenship						
Total science and engineering	1,193	2,284	2,637	2,668	1,945	2,334	2,370
Engineering	709	737	1,188	1,008	839	984	1,022
Sciences	484	1,547	1,449	1,660	1,106	1,350	1,348
Natural sciences	296	917	999	1,117	653	821	754
Physical science[1]	97	232	164	165	167	200	164
Mathematical science	31	98	80	104	74	161	162
Computer science	128	423	675	714	288	280	256
Biological science	27	133	70	86	96	103	98
Agricultural science	13	31	10	48	28	77	74
Social sciences	188	630	450	543	453	529	594
Social science	186	463	321	406	302	350	416
Psychology	2	167	129	137	151	179	178
Non-S&E[2]	2,794	5,117	5,142	6,592	5,456	5,432	5,817
Grand total	3,987	7,401	7,779	9,260	7,401	7,766	8,187

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

3 Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all recipients						
Total science and engineering	19,796	21,163	22,609	23,804	25,080	26,416	28,313
Engineering	2,243	2,767	3,081	3,268	3,357	3,665	4,093
Sciences	17,555	18,396	19,528	20,536	21,723	22,751	24,220
Natural sciences	7,734	8,555	8,839	9,035	9,139	9,295	9,637
Physical science[1]	1,352	1,413	1,523	1,430	1,457	1,457	1,562
Mathematical science	1,011	1,301	1,370	1,476	1,486	1,562	1,616
Computer science	2,037	2,496	2,626	2,675	2,761	2,646	2,756
Biological science	2,429	2,444	2,462	2,500	2,491	2,500	2,433
Agricultural science	905	901	858	954	944	1,130	1,270
Social sciences	9,821	9,841	10,689	11,501	12,584	13,456	14,583
Social science	4,404	4,514	4,851	5,218	5,776	6,180	6,605
Psychology	5,417	5,327	5,838	6,283	6,808	7,276	7,978
Non-S&E[2]	123,699	127,714	139,042	147,118	156,523	165,492	172,907
Grand total	143,497	148,877	161,651	170,922	181,603	191,908	201,220
	White, non-Hispanics						
Total science and engineering	15,064	15,240	15,830	16,200	16,879	17,536	18,482
Engineering	1,540	1,674	1,958	1,937	1,893	1,977	2,143
Sciences	13,524	13,366	13,872	14,263	14,986	15,559	16,339
Natural sciences	5,639	5,829	5,723	5,626	5,514	5,461	5,485
Physical science[1]	998	979	1,016	883	830	833	849
Mathematical science	703	825	859	894	899	947	1,022
Computer science	1,251	1,488	1,356	1,377	1,377	1,171	1,138
Biological science	1,955	1,813	1,849	1,790	1,724	1,685	1,551
Agricultural science	732	724	643	682	684	825	925
Social sciences	7,885	7,537	8,149	8,637	9,472	10,098	10,854
Social science	3,266	3,164	3,366	3,579	3,919	4,247	4,470
Psychology	4,619	4,373	4,783	5,058	5,553	5,851	6,384
Non-S&E[2]	102,518	101,508	110,450	114,599	122,728	128,729	133,469
Grand total	117,582	116,748	126,280	130,799	139,607	146,265	151,951
	Asians						
Total science and engineering	810	896	1,161	1,256	1,351	1,487	1,609
Engineering	177	195	293	306	323	407	441
Sciences	633	701	868	950	1,028	1,080	1,168
Natural sciences	425	518	627	653	704	747	769
Physical science[1]	59	63	99	94	86	89	99
Mathematical science	56	73	61	78	81	98	76
Computer science	201	257	329	332	387	400	396
Biological science	93	105	118	128	127	139	169
Agricultural science	16	20	20	21	23	21	29
Social sciences	208	183	241	297	324	333	399
Social science	127	103	154	180	201	212	258
Psychology	81	80	87	117	123	121	141
Non-S&E[2]	2,143	2,255	3,096	3,068	3,499	3,983	4,435
Grand total	2,953	3,151	4,257	4,324	4,850	5,470	6,044

See explanatory information and SOURCES at end of table.

Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Underrepresented minorities, total						
Total science and engineering	1,420	1,365	1,456	1,610	1,897	2,020	2,262
Engineering	102	162	171	181	195	221	271
Sciences	1,318	1,223	1,285	1,429	1,702	1,799	1,991
Natural sciences	427	434	386	392	531	530	594
Physical science[1]	62	70	55	64	58	65	89
Mathematical science	46	49	41	53	82	55	82
Computer science	114	116	126	119	181	197	176
Biological science	171	167	138	124	170	170	180
Agricultural science	34	32	26	32	40	43	67
Social sciences	891	789	899	1,037	1,171	1,269	1,397
Social science	379	331	361	439	549	562	610
Psychology	512	458	538	598	622	707	787
Non-S&E[2]	12,391	11,720	12,175	13,087	14,562	16,208	17,447
Grand total	13,811	13,105	13,631	14,697	16,459	18,228	19,709
	Black, non-Hispanics						
Total science and engineering	769	794	774	897	1,062	1,190	1,301
Engineering	56	68	93	100	99	134	157
Sciences	713	706	681	797	963	1,056	1,144
Natural sciences	223	243	205	220	306	317	330
Physical science[1]	28	34	22	26	33	32	47
Mathematical science	19	28	27	33	47	33	50
Computer science	72	81	79	92	133	141	115
Biological science	84	87	65	59	79	88	88
Agricultural science	20	13	12	10	17	23	30
Social sciences	490	463	476	577	657	739	814
Social science	210	203	201	239	332	345	385
Psychology	280	260	275	338	325	394	429
Non-S&E[2]	7,980	7,494	7,717	8,407	9,176	10,436	11,124
Grand total	8,749	8,288	8,491	9,304	10,238	11,626	12,425
	Hispanics						
Total science and engineering	575	539	615	626	744	740	837
Engineering	42	68	74	73	90	80	101
Sciences	533	471	541	555	654	660	736
Natural sciences	174	175	162	156	200	194	233
Physical science[1]	32	34	27	35	23	29	38
Mathematical science	24	19	13	18	33	19	28
Computer science	29	32	44	25	44	51	56
Biological science	77	73	64	59	82	77	75
Agricultural science	12	17	14	19	18	18	34
Social sciences	359	296	379	399	454	466	503
Social science	148	121	137	163	187	178	192
Psychology	211	175	242	236	267	288	311
Non-S&E[2]	3,813	3,721	3,921	4,154	4,816	5,135	5,659
Grand total	4,388	4,260	4,536	4,782	5,560	5,875	6,496

See explanatory information and SOURCES at end of table.

Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	American Indians or Alaskan Natives						
Total science and engineering	76	52	67	85	91	90	124
Engineering	4	6	4	8	6	7	13
Sciences	72	46	63	77	85	83	111
Natural sciences	30	16	19	16	25	19	31
Physical science[1]	2	2	6	3	5	4	4
Mathematical science	3	2	1	2	2	3	4
Computer science	13	3	3	2	4	5	3
Biological science	10	7	9	6	9	5	17
Agricultural science	2	2	0	3	5	2	3
Social sciences	42	30	44	61	60	64	80
Social science	21	7	23	37	30	39	33
Psychology	21	23	21	24	30	25	47
Non S&E[2]	598	505	537	526	570	637	664
Grand total	674	557	604	611	661	727	788
	U.S. citizens and permanent residents, total						
Total science and engineering	17,294	17,521	18,447	19,066	20,127	21,043	22,353
Engineering	1,819	2,231	2,422	2,424	2,411	2,605	2,855
Sciences	15,475	15,290	16,025	16,642	17,716	18,438	19,498
Natural sciences	6,491	6,781	6,736	6,671	6,749	6,738	6,848
Physical science[1]	1,119	1,112	1,170	1,041	974	987	1,037
Mathematical science	805	947	961	1,025	1,062	1,103	1,180
Computer science	1,566	1,861	1,811	1,828	1,945	1,768	1,710
Biological science	2,219	2,085	2,105	2,042	2,021	1,994	1,900
Agricultural science	782	776	689	735	747	889	1,021
Social sciences	8,984	8,509	9,289	9,971	10,967	11,700	12,650
Social science	3,772	3,598	3,881	4,198	4,669	5,021	5,338
Psychology	5,212	4,911	5,408	5,773	6,298	6,679	7,312
Non S&E[2]	117,052	115,483	125,721	130,754	140,789	146,920	155,251
Grand total	134,346	133,004	144,168	149,820	160,916	169,963	177,704
	Nonresident aliens[3]						
Total science and engineering	2,228	2,527	3,100	3,636	3,966	4,302	4,785
Engineering	352	437	539	696	847	804	1,086
Sciences	1,876	2,090	2,561	2,940	3,121	3,398	3,699
Natural sciences	1,138	1,357	1,657	1,891	2,043	2,229	2,490
Physical science[1]	209	222	284	336	434	427	484
Mathematical science	186	292	344	386	376	400	387
Computer science	440	492	594	630	675	799	956
Biological science	188	241	279	350	379	410	443
Agricultural science	115	110	156	189	179	203	208
Social sciences	738	733	904	1,049	1,078	1,169	1,199
Social science	560	602	744	800	865	962	978
Psychology	178	131	160	249	213	207	221
Non S&E[2]	5,050	5,418	6,401	7,267	8,490	9,113	10,503
Grand total	7,278	7,945	9,501	10,903	12,461	13,415	15,288

See explanatory information and SOURCES at end of table.

Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Unknown race/ethnicity or citizenship						
Total science and engineering	276	1,115	1,062	1,102	985	1,071	1,175
Engineering	72	99	120	148	99	156	142
Sciences	204	1,016	942	954	886	915	1,033
Natural sciences	105	417	446	473	347	328	299
Physical science[1]	24	79	69	53	49	43	41
Mathematical science	20	62	65	65	48	62	49
Computer science	31	143	221	217	141	89	78
Biological science	22	118	78	108	91	96	90
Agricultural science	8	15	13	30	18	38	41
Social sciences	99	599	496	481	539	587	734
Social science	72	314	226	220	242	197	289
Psychology	27	285	270	261	297	390	445
Non-S&E[2]	1,597	6,813	6,920	9,097	7,241	7,459	7,053
Grand total	1,873	7,928	7,982	10,199	8,226	8,530	8,228

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all recipients						
Total science and engineering	18,936	19,894	21,731	22,868	24,018	24,676	25,438
Engineering	3,166	3,712	4,543	4,894	5,215	5,439	5,696
Sciences	15,770	16,182	17,188	17,974	18,803	19,237	19,742
Natural sciences	9,435	9,845	10,656	11,360	11,997	12,363	12,554
Physical science[1]	3,533	3,840	3,984	4,262	4,440	4,575	4,472
Mathematical science	688	740	859	892	1,039	1,058	1,146
Computer science	310	450	612	705	800	869	878
Biological science	3,793	3,839	4,115	4,327	4,645	4,798	5,090
Agricultural science	1,111	976	1,086	1,174	1,073	1,063	968
Social sciences	6,335	6,337	6,532	6,614	6,806	6,874	7,188
Social science	3,217	3,164	3,324	3,332	3,556	3,610	3,769
Psychology	3,118	3,173	3,208	3,282	3,250	3,264	3,419
Non-S&E[2]	12,362	12,473	12,593	13,200	13,499	14,177	14,316
Grand total	31,298	32,367	34,324	36,068	37,517	38,853	39,754
	White, non-Hispanics						
Total science and engineering	12,172	12,064	12,517	13,218	13,352	13,353	13,767
Engineering	1,186	1,460	1,730	1,847	1,843	1,885	2,030
Sciences	10,984	10,604	10,787	11,371	11,509	11,468	11,737
Natural sciences	6,433	6,218	6,492	6,817	6,893	6,830	6,846
Physical science[1]	2,331	2,353	2,327	2,509	2,526	2,463	2,372
Mathematical science	350	319	369	375	422	425	479
Computer science	177	230	320	343	355	379	411
Biological science	2,915	2,761	2,906	2,980	3,044	3,070	3,146
Agricultural science	660	555	570	610	546	493	438
Social sciences	4,551	4,386	4,295	4,554	4,616	4,638	4,891
Social science	1,961	1,868	1,836	1,902	1,950	1,993	2,068
Psychology	2,590	2,518	2,459	2,652	2,666	2,645	2,823
Non-S&E[2]	9,141	9,074	9,086	9,737	9,871	10,292	10,326
Grand total	21,313	21,138	21,603	22,955	23,223	23,645	24,093
	Asians						
Total science and engineering	849	940	994	1,052	1,218	1,352	1,646
Engineering	306	331	362	375	416	455	542
Sciences	543	609	632	677	802	897	1,104
Natural sciences	403	445	484	506	614	705	855
Physical science[1]	174	166	182	184	200	258	293
Mathematical science	34	41	24	28	57	51	79
Computer science	17	27	53	52	66	86	81
Biological science	152	173	200	207	262	272	372
Agricultural science	26	38	25	35	29	38	30
Social sciences	140	164	148	171	188	192	249
Social science	96	116	93	118	126	136	175
Psychology	44	48	55	53	62	56	74
Non-S&E[2]	267	253	284	309	357	420	412
Grand total	1,116	1,193	1,278	1,361	1,575	1,772	2,058

See explanatory information and SOURCES at end of table.

Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Underrepresented minorities, total						
Total science and engineering	713	736	814	892	1,011	997	1,061
Engineering	57	67	89	98	122	131	118
Sciences	656	669	725	794	889	866	943
Natural sciences	256	289	316	333	374	379	420
Physical science[1]	71	91	120	123	128	134	148
Mathematical science	19	22	19	16	20	18	25
Computer science	9	9	7	6	21	15	14
Biological science	125	135	135	144	167	176	195
Agricultural science	32	32	35	44	38	36	38
Social sciences	400	380	409	461	515	487	523
Social science	216	176	208	218	251	233	256
Psychology	184	204	201	243	264	254	267
Non S&E[2]	1,068	1,008	952	1,105	1,159	1,183	1,321
Grand total	1,781	1,744	1,766	1,997	2,170	2,180	2,382
	Black, non Hispanics						
Total science and engineering	375	320	376	379	459	406	472
Engineering	34	25	35	40	55	49	51
Sciences	341	295	341	339	404	357	421
Natural sciences	110	109	115	106	131	117	150
Physical science[1]	31	22	35	33	34	32	45
Mathematical science	7	11	8	4	11	4	8
Computer science	3	2	1	1	8	5	6
Biological science	53	60	57	51	60	61	74
Agricultural science	16	14	14	17	18	15	17
Social sciences	231	186	226	233	273	240	271
Social science	126	93	129	117	144	137	152
Psychology	105	93	97	116	129	103	119
Non S&E[2]	670	593	597	680	706	705	815
Grand total	1,045	913	973	1,059	1,165	1,111	1,287
	Hispanics						
Total science and engineering	297	363	385	471	496	522	546
Engineering	22	35	47	54	61	71	65
Sciences	275	328	338	417	435	451	481
Natural sciences	125	157	174	214	215	232	251
Physical science[1]	36	62	69	86	81	89	94
Mathematical science	12	11	11	11	9	12	16
Computer science	6	4	4	5	12	8	7
Biological science	59	64	71	89	97	102	114
Agricultural science	12	16	19	23	16	21	20
Social sciences	150	171	164	203	220	219	230
Social science	81	76	71	94	91	83	97
Psychology	69	95	93	109	122	136	133
Non S&E[2]	343	353	314	371	377	397	430
Grand total	640	716	699	842	873	919	976

See explanatory information and SOURCES at end of table

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Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	American Indians or Alaskan Natives						
Total science and engineering	41	53	53	42	56	69	43
Engineering	1	7	7	4	6	11	2
Sciences	40	46	46	38	50	58	41
Natural sciences	21	23	27	13	28	30	19
Physical science[1]	4	7	16	4	13	13	9
Mathematical science	0	0	0	1	0	2	1
Computer science	0	3	2	0	1	2	1
Biological science	13	11	7	4	10	13	7
Agricultural science	4	2	2	4	4	0	1
Social sciences	19	23	19	25	22	28	22
Social science	9	7	8	7	9	13	7
Psychology	10	16	11	18	13	15	15
Non-S&E[2]	55	62	41	54	76	81	76
Grand total	96	115	94	96	132	150	119
	U.S. citizens and permanent residents, total						
Total science and engineering	13,734	13,740	14,325	15,162	15,581	15,702	16,474
Engineering	1,551	1,858	2,181	2,320	2,381	2,471	2,690
Sciences	12,183	11,882	12,144	12,842	13,200	13,231	13,784
Natural sciences	7,092	6,952	7,292	7,656	7,881	7,914	8,121
Physical science[1]	2,576	2,610	2,629	2,816	2,854	2,855	2,813
Mathematical science	403	382	412	419	499	494	583
Computer science	203	266	380	401	442	480	506
Biological science	3,192	3,069	3,241	3,331	3,473	3,518	3,713
Agricultural science	718	625	630	689	613	567	506
Social sciences	5,091	4,930	4,852	5,186	5,319	5,317	5,663
Social science	2,273	2,160	2,137	2,238	2,327	2,362	2,499
Psychology	2,818	2,770	2,715	2,948	2,992	2,955	3,164
Non-S&E[2]	10,476	10,335	10,322	11,151	11,387	11,695	12,059
Grand total	24,210	24,075	24,647	26,313	26,968	27,597	28,533
	Nonresident aliens[3]						
Total science and engineering	4,048	4,468	5,391	6,571	7,642	8,092	8,111
Engineering	1,419	1,532	1,940	2,277	2,634	2,743	2,783
Sciences	2,629	2,936	3,451	4,294	5,008	5,349	5,328
Natural sciences	1,845	2,149	2,499	3,232	3,782	4,089	4,056
Physical science[1]	739	923	1,012	1,244	1,442	1,582	1,497
Mathematical science	238	302	346	424	506	511	517
Computer science	89	143	178	271	340	365	349
Biological science	424	492	608	853	1,059	1,159	1,246
Agricultural science	355	289	355	440	435	472	447
Social sciences	784	787	952	1,062	1,226	1,260	1,272
Social science	703	702	846	945	1,093	1,104	1,124
Psychology	81	85	106	117	133	156	148
Non-S&E[2]	1,160	1,142	1,255	1,522	1,667	1,856	1,812
Grand total	5,226	5,610	6,646	8,093	9,309	9,950	9,923

See explanatory information and SOURCES at end of table

Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Unknown race/ethnicity or citizenship						
Total science and engineering	1,154	1,686	2,015	1,135	795	882	853
Engineering	196	322	422	297	200	225	223
Sciences	958	1,364	1,593	838	595	657	630
Natural sciences	498	744	865	472	334	360	377
Physical science[1]	218	307	343	202	144	138	162
Mathematical science	47	56	101	49	34	53	46
Computer science	18	41	54	33	18	24	23
Biological science	177	278	266	143	113	121	131
Agricultural science	38	62	101	45	25	24	15
Social sciences	460	620	728	366	261	297	253
Social science	241	302	341	149	136	144	146
Psychology	219	318	387	217	125	153	107
Non-S&E[2]	706	996	1,016	527	445	424	445
Grand total	1,860	2,682	3,031	1,662	1,240	1,306	1,298

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all recipients						
Total science and engineering	14,045	14,582	15,622	16,498	17,087	17,594	17,786
Engineering	2,968	3,470	4,168	4,479	4,748	4,933	5,175
Sciences	11,077	11,112	11,454	12,019	12,339	12,661	12,611
Natural sciences	7,312	7,484	7,857	8,430	8,842	9,015	8,932
Physical science[1]	2,958	3,200	3,217	3,460	3,582	3,616	3,529
Mathematical science	582	615	704	734	840	853	882
Computer science	277	385	504	595	683	749	741
Biological science	2,555	2,479	2,573	2,713	2,873	2,967	3,040
Agricultural science	940	805	859	928	864	830	740
Social sciences	3,765	3,628	3,597	3,589	3,497	3,646	3,679
Social science	2,188	2,153	2,189	2,221	2,243	2,311	2,349
Psychology	1,577	1,475	1,408	1,368	1,254	1,335	1,330
Non-S&E[2]	6,509	6,357	6,190	6,464	6,560	6,839	6,860
Grand total	20,554	20,939	21,812	22,962	23,647	24,433	24,646
	White, non-Hispanics						
Total science and engineering	8,528	8,231	8,225	8,692	8,602	8,642	8,739
Engineering	1,082	1,316	1,506	1,621	1,608	1,645	1,767
Sciences	7,446	6,915	6,719	7,071	6,994	6,997	6,972
Natural sciences	4,907	4,588	4,583	4,861	4,916	4,783	4,713
Physical science[1]	1,960	1,935	1,843	2,014	2,000	1,929	1,872
Mathematical science	280	258	281	296	337	332	354
Computer science	156	184	253	263	282	310	328
Biological science	1,964	1,765	1,785	1,825	1,874	1,848	1,836
Agricultural science	547	446	421	463	423	364	323
Social sciences	2,539	2,327	2,136	2,210	2,078	2,214	2,259
Social science	1,237	1,156	1,068	1,132	1,081	1,130	1,160
Psychology	1,302	1,171	1,068	1,078	997	1,084	1,099
Non-S&E[2]	4,662	4,394	4,228	4,526	4,572	4,650	4,628
Grand total	13,190	12,625	12,453	13,218	13,174	13,292	13,367
	Asians						
Total science and engineering	657	707	750	790	836	939	1,107
Engineering	284	309	328	340	367	394	481
Sciences	373	398	422	450	469	545	626
Natural sciences	293	303	334	349	388	443	510
Physical science[1]	132	126	141	141	145	171	187
Mathematical science	28	30	21	21	39	33	43
Computer science	17	21	43	44	51	74	62
Biological science	95	95	110	115	133	139	198
Agricultural science	21	31	19	28	20	26	20
Social sciences	80	95	88	101	81	102	116
Social science	57	78	60	79	66	83	94
Psychology	23	17	28	22	15	19	22
Non-S&E[2]	151	137	163	164	169	210	211
Grand total	808	844	913	954	1,005	1,149	1,318

See explanatory information and SOURCES at end of table.

Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Underrepresented minorities, total						
Total science and engineering	441	443	485	548	614	595	609
Engineering	53	61	76	83	102	107	95
Sciences	388	382	409	465	512	488	514
Natural sciences	176	198	220	225	260	258	275
Physical science[1]	56	67	89	83	106	99	112
Mathematical science	14	18	12	11	12	14	22
Computer science	7	7	2	5	16	13	8
Biological science	72	82	87	89	92	104	104
Agricultural science	27	24	30	37	34	28	29
Social sciences	212	184	189	240	252	230	239
Social science	137	114	120	138	151	140	144
Psychology	75	70	69	102	101	90	95
Non-S&E[2]	448	448	405	444	474	495	556
Grand total	889	891	890	992	1,088	1,090	1,165
	Black, non-Hispanics						
Total science and engineering	237	189	222	231	268	240	265
Engineering	30	24	32	34	47	43	40
Sciences	207	165	190	197	221	197	225
Natural sciences	81	73	78	74	85	82	99
Physical science[1]	24	18	27	24	28	25	35
Mathematical science	7	9	5	3	7	4	7
Computer science	3	1	0	1	4	4	2
Biological science	32	35	33	30	29	37	42
Agricultural science	15	10	13	16	17	12	13
Social sciences	126	92	112	123	136	115	126
Social science	84	58	76	79	92	87	82
Psychology	42	34	36	44	44	28	44
Non-S&E[2]	260	251	240	258	284	260	324
Grand total	497	440	462	489	552	520	589
	Hispanics						
Total science and engineering	183	222	230	292	309	313	319
Engineering	22	30	39	45	51	56	53
Sciences	161	192	191	247	258	257	266
Natural sciences	83	109	122	140	154	154	162
Physical science[1]	28	44	48	56	68	63	70
Mathematical science	7	9	7	7	5	9	14
Computer science	4	4	1	4	11	7	6
Biological science	36	40	50	56	57	59	57
Agricultural science	8	12	16	17	13	16	15
Social sciences	78	83	69	107	104	103	104
Social science	50	51	39	55	52	47	59
Psychology	28	32	30	52	52	56	45
Non-S&E[2]	169	167	149	159	153	175	197
Grand total	352	389	379	451	462	488	516

See explanatory information and SOURCES at end of table.

Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	American Indians or Alaskan Natives						
Total science and engineering	21	32	33	25	37	42	25
Engineering	1	7	5	4	4	8	2
Sciences	20	25	28	21	33	34	23
Natural sciences	12	16	20	11	21	22	14
Physical science [1]	4	5	14	3	10	11	7
Mathematical science	0	0	0	1	0	1	1
Computer science	0	2	1	0	1	2	0
Biological science	4	7	4	3	6	8	5
Agricultural science	4	2	1	4	4	0	1
Social sciences	8	9	8	10	12	12	9
Social science	3	5	5	4	7	6	3
Psychology	5	4	3	6	5	6	6
Non-S&E [2]	19	30	16	27	37	40	35
Grand total	40	62	49	52	74	82	60
	U.S. citizens and permanent residents, total						
Total science and engineering	9,626	9,381	9,460	10,030	10,052	10,176	10,455
Engineering	1,419	1,686	1,910	2,044	2,077	2,146	2,343
Sciences	8,207	7,695	7,550	7,986	7,975	8,030	8,112
Natural sciences	5,376	5,089	5,137	5,435	5,564	5,484	5,498
Physical science [1]	2,148	2,128	2,073	2,238	2,251	2,199	2,171
Mathematical science	322	306	314	328	388	379	419
Computer science	180	212	298	312	349	397	398
Biological science	2,131	1,942	1,982	2,029	2,099	2,091	2,138
Agricultural science	595	501	470	528	477	418	372
Social sciences	2,831	2,606	2,413	2,551	2,411	2,546	2,614
Social science	1,431	1,348	1,248	1,349	1,298	1,353	1,398
Psychology	1,400	1,258	1,165	1,202	1,113	1,193	1,216
Non-S&E [2]	5,261	4,979	4,796	5,134	5,215	5,355	5,395
Grand total	14,887	14,360	14,256	15,164	15,267	15,531	15,850
	Nonresident aliens [3]						
Total science and engineering	3,542	3,904	4,609	5,590	6,413	6,741	6,657
Engineering	1,363	1,478	1,850	2,157	2,485	2,574	2,622
Sciences	2,179	2,426	2,759	3,433	3,928	4,167	4,035
Natural sciences	1,536	1,794	2,011	2,608	3,003	3,230	3,127
Physical science [1]	631	815	852	1,048	1,206	1,296	1,216
Mathematical science	216	260	299	363	420	427	422
Computer science	81	138	160	256	317	329	323
Biological science	293	333	400	582	694	787	809
Agricultural science	315	248	300	359	366	391	357
Social sciences	643	632	748	825	925	937	908
Social science	590	584	688	763	848	856	844
Psychology	53	48	60	62	77	81	64
Non-S&E [2]	853	818	833	1,042	1,103	1,219	1,200
Grand total	4,395	4,722	5,442	6,632	7,516	7,960	7,857

See explanatory information and SOURCES at end of table.

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Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Unknown race/ethnicity or citizenship						
Total science and engineering	877	1,297	1,553	878	622	677	674
Engineering	186	306	408	278	186	213	210
Sciences	691	991	1,145	600	436	464	464
Natural sciences	400	601	709	387	275	301	307
Physical science[1]	179	257	292	174	125	121	142
Mathematical science	44	49	91	43	32	47	41
Computer science	16	35	46	27	17	23	20
Biological science	131	204	191	102	80	89	93
Agricultural science	30	56	89	41	21	21	11
Social sciences	291	390	436	213	161	163	157
Social science	167	221	253	109	97	102	107
Psychology	124	169	183	104	64	61	50
Non-S&E[2]	395	560	561	288	242	265	265
Grand total	1,272	1,857	2,114	1,166	864	942	939

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

3 Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all recipients						
Total science and engineering	4,891	5,312	6,109	6,370	6,931	7,082	7,652
Engineering	198	242	375	415	467	506	521
Sciences	4,693	5,070	5,734	5,955	6,464	6,576	7,131
Natural sciences	2,123	2,361	2,799	2,930	3,155	3,348	3,622
Physical science[1]	575	640	767	802	858	959	943
Mathematical science	106	125	155	158	199	205	264
Computer science	33	65	108	110	117	120	137
Biological science	1,238	1,360	1,542	1,614	1,772	1,831	2,050
Agricultural science	171	171	227	246	209	233	228
Social sciences	2,570	2,709	2,935	3,025	3,309	3,228	3,509
Social science	1,029	1,011	1,135	1,111	1,313	1,299	1,420
Psychology	1,541	1,698	1,800	1,914	1,996	1,929	2,089
Non-S&E[2]	5,853	6,116	6,403	6,736	6,939	7,338	7,456
Grand total	10,744	11,428	12,512	13,106	13,870	14,420	15,108
	White, non-Hispanics						
Total science and engineering	3,644	3,833	4,292	4,526	4,750	4,711	5,028
Engineering	106	144	224	226	235	240	263
Sciences	3,538	3,689	4,068	4,300	4,515	4,471	4,765
Natural sciences	1,526	1,630	1,909	1,956	1,977	2,047	2,133
Physical science[1]	371	418	484	495	526	534	500
Mathematical science	70	61	88	79	85	93	125
Computer science	21	46	67	80	73	69	83
Biological science	951	996	1,121	1,155	1,170	1,222	1,310
Agricultural science	113	109	149	147	123	129	115
Social sciences	2,012	2,059	2,159	2,344	2,538	2,424	2,632
Social science	724	712	768	770	869	863	908
Psychology	1,288	1,347	1,391	1,574	1,669	1,561	1,724
Non-S&E[2]	4,479	4,680	4,858	5,211	5,299	5,642	5,698
Grand total	8,123	8,513	9,150	9,737	10,049	10,353	10,726
	Asians						
Total science and engineering	192	233	244	262	382	413	539
Engineering	22	22	34	35	49	61	61
Sciences	170	211	210	227	333	352	478
Natural sciences	110	142	150	157	226	262	345
Physical science[1]	42	40	41	43	55	87	106
Mathematical science	6	11	3	7	18	18	36
Computer science	0	6	10	8	15	12	19
Biological science	57	78	90	92	129	133	174
Agricultural science	5	7	6	7	9	12	10
Social sciences	60	69	60	70	107	90	133
Social science	39	38	33	39	60	53	81
Psychology	21	31	27	31	47	37	52
Non-S&E[2]	116	116	121	145	188	210	201
Grand total	308	349	365	407	570	623	740

See explanatory information and SOURCES at end of table.

Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Underrepresented minorities, total						
Total science and engineering	272	293	329	344	397	402	452
Engineering	4	6	13	15	20	24	23
Sciences	268	287	316	329	377	378	429
Natural sciences	80	91	96	108	114	121	145
Physical science[1]	15	24	31	40	22	35	36
Mathematical science	5	4	7	5	8	4	3
Computer science	2	2	5	1	5	2	6
Biological science	53	53	48	55	75	72	91
Agricultural science	5	8	5	7	4	8	9
Social sciences	188	196	220	221	263	257	284
Social science	79	62	88	80	100	93	112
Psychology	109	134	132	141	163	164	172
Non-S&E[2]	620	560	547	661	685	688	765
Grand total	892	853	876	1,005	1,082	1,090	1,217
	Black, non-Hispanics						
Total science and engineering	138	131	154	148	191	166	207
Engineering	4	1	3	6	8	6	11
Sciences	134	130	151	142	183	160	196
Natural sciences	29	36	37	32	46	35	51
Physical science[1]	7	4	8	9	6	7	10
Mathematical science	0	2	3	1	4	0	1
Computer science	0	1	1	0	4	1	4
Biological science	21	25	24	21	31	24	32
Agricultural science	1	4	1	1	1	3	4
Social sciences	105	94	114	110	137	125	145
Social science	42	35	53	38	52	50	70
Psychology	63	59	61	72	85	75	75
Non-S&E[2]	410	342	357	422	422	425	491
Grand total	548	473	511	570	613	591	698
	Hispanics						
Total science and engineering	114	141	155	179	187	209	227
Engineering	0	5	8	9	10	15	12
Sciences	114	136	147	170	177	194	215
Natural sciences	42	48	52	74	61	78	89
Physical science[1]	8	18	21	30	13	26	24
Mathematical science	5	2	4	4	4	3	2
Computer science	2	0	3	1	1	1	1
Biological science	23	24	21	33	40	43	57
Agricultural science	4	4	3	6	3	5	5
Social sciences	72	88	95	96	116	116	126
Social science	31	25	32	39	46	36	38
Psychology	41	63	63	57	70	80	88
Non-S&E[2]	174	186	165	212	224	222	233
Grand total	288	327	320	391	411	431	460

See explanatory information and SOURCES at end of table

Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	American Indians or Alaskan Natives						
Total science and engineering	20	21	20	17	19	27	18
Engineering	0	0	2	0	2	3	0
Sciences	20	21	18	17	17	24	18
Natural sciences	9	7	7	2	7	8	5
Physical science[1]	0	2	2	1	3	2	2
Mathematical science	0	0	0	0	0	1	0
Computer science	0	1	1	0	0	0	1
Biological science	9	4	3	1	4	5	2
Agricultural science	0	0	1	0	0	0	0
Social sciences	11	14	11	15	10	16	13
Social science	6	2	3	3	2	7	4
Psychology	5	12	8	12	8	9	9
Non-S&E[2]	36	32	25	27	39	41	41
Grand total	56	53	45	44	58	68	59
	U.S. citizens and permanent residents, total						
Total science and engineering	4,108	4,359	4,865	5,132	5,529	5,526	6,019
Engineering	132	172	271	276	304	325	347
Sciences	3,976	4,187	4,594	4,856	5,225	5,201	5,672
Natural sciences	1,716	1,863	2,155	2,221	2,317	2,430	2,623
Physical science[1]	428	482	556	578	603	656	642
Mathematical science	81	76	98	91	111	115	164
Computer science	23	54	82	89	93	83	108
Biological science	1,061	1,127	1,239	1,302	1,374	1,427	1,575
Agricultural science	123	124	160	161	136	149	134
Social sciences	2,260	2,324	2,439	2,635	2,908	2,771	3,049
Social science	842	812	889	889	1,029	1,009	1,101
Psychology	1,418	1,512	1,550	1,746	1,879	1,762	1,948
Non-S&E[2]	5,215	5,356	5,526	6,017	6,172	6,540	6,664
Grand total	9,323	9,715	10,391	11,149	11,701	12,066	12,683
	Nonresident aliens[3]						
Total science and engineering	506	564	782	981	1,229	1,351	1,454
Engineering	56	54	90	120	149	169	161
Sciences	450	510	692	861	1,080	1,182	1,293
Natural sciences	309	355	488	624	779	859	929
Physical science[1]	108	108	160	196	236	286	281
Mathematical science	22	42	47	61	86	84	95
Computer science	8	5	18	15	23	36	26
Biological science	131	159	208	271	365	372	437
Agricultural science	40	41	55	81	69	81	90
Social sciences	141	155	204	237	301	323	364
Social science	113	118	156	182	245	248	280
Psychology	28	37	46	55	56	75	84
Non-S&E[2]	327	324	422	480	564	639	612
Grand total	833	888	1,204	1,461	1,793	1,990	2,066

See explanatory information and SOURCES at end of table

Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Unknown race/ethnicity or citizenship						
Total science and engineering	277	389	462	257	173	205	179
Engineering	10	16	14	19	14	12	13
Sciences	267	373	448	238	159	193	166
Natural sciences	98	143	156	85	59	59	70
Physical science[1]	39	50	51	28	19	17	20
Mathematical science	3	7	10	6	2	6	5
Computer science	2	6	8	6	1	1	3
Biological science	46	74	75	41	33	32	38
Agricultural science	8	6	12	4	4	3	4
Social sciences	169	230	292	153	100	134	96
Social science	74	81	88	40	39	42	39
Psychology	95	149	204	113	61	92	57
Non S&E[2]	311	436	455	239	203	159	180
Grand total	588	825	917	496	376	364	359

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non S&E refers to non-science and non-engineering.

[3] Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 13. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all black recipients						
Total science and engineering	17,040	17,230	17,385	18,230	19,987	22,431	24,421
Engineering	2,039	2,315	2,067	2,072	2,229	2,362	2,577
Sciences	15,001	14,915	15,318	16,158	17,758	20,069	21,844
Natural sciences	6,009	6,524	6,005	5,782	5,834	6,401	6,972
Physical science[1]	830	823	697	650	753	816	936
Mathematical science	770	834	792	720	811	904	965
Computer science	2,143	2,820	2,457	2,247	1,997	2,090	2,213
Biological science	2,047	1,890	1,916	1,994	2,111	2,385	2,739
Agricultural science	219	157	143	171	162	206	219
Social sciences	8,992	8,391	9,313	10,376	11,924	13,668	14,872
Social science	6,325	5,940	6,570	7,226	8,236	9,489	10,254
Psychology	2,667	2,451	2,743	3,150	3,688	4,179	4,618
Non S&E[2]	39,246	36,604	38,244	39,871	43,795	47,641	51,114
Grand total	56,286	53,834	55,629	58,101	63,782	70,072	75,535
	Black recipients from HBCUs						
Total science and engineering	4,933	5,229	5,054	5,190	5,679	6,363	7,368
Engineering	438	557	474	524	589	594	700
Sciences	4,495	4,672	4,580	4,666	5,090	5,769	6,668
Natural sciences	2,369	2,750	2,513	2,353	2,363	2,599	3,021
Physical science[1]	363	346	320	296	356	376	390
Mathematical science	382	425	381	307	369	420	463
Computer science	740	1,187	1,048	899	748	780	904
Biological science	783	714	693	764	792	906	1,155
Agricultural science	101	78	71	87	96	117	109
Social sciences	2,126	1,922	2,067	2,313	2,727	3,170	3,647
Social science	1,581	1,457	1,517	1,651	1,886	2,201	2,507
Psychology	545	465	550	662	841	969	1,140
Non S&E[2]	11,808	10,853	10,435	10,744	11,910	12,899	14,073
Grand total	16,741	16,082	15,489	15,934	17,589	19,262	21,441
	Percent from HBCUs						
Total science and engineering	28.9	30.3	29.1	28.5	28.4	28.4	30.2
Engineering	21.5	24.1	22.9	25.3	26.4	25.1	27.2
Sciences	30.0	31.3	29.9	28.9	28.7	28.7	30.5
Natural sciences	39.4	42.2	41.8	40.7	40.5	40.6	43.3
Physical science[1]	43.7	42.0	45.9	45.5	47.5	46.1	46.7
Mathematical science	49.6	51.0	48.1	42.6	45.5	46.5	48.0
Computer science	34.5	42.1	42.7	40.0	37.5	37.3	40.8
Biological science	38.3	37.8	36.2	38.3	37.5	38.0	42.2
Agricultural science	46.1	49.7	49.7	50.9	59.3	56.8	49.8
Social sciences	23.6	22.9	22.2	22.3	22.9	23.2	24.5
Social science	25.0	24.5	23.1	22.8	22.9	23.2	24.4
Psychology	20.4	19.0	20.1	21.0	22.8	23.2	24.7
Non S&E[2]	30.1	29.6	27.3	26.9	27.2	27.1	27.5
Grand total	29.7	29.9	27.8	27.4	27.6	27.5	28.4

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race-ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race-ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial-ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

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Table 14. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all black recipients						
Total science and engineering	7,926	7,886	7,685	7,830	8,448	9,375	10,099
Engineering	1,479	1,606	1,397	1,416	1,484	1,614	1,764
Sciences	6,447	6,280	6,288	6,414	6,964	7,761	8,335
Natural sciences	2,833	2,939	2,732	2,476	2,538	2,709	2,872
Physical science[1]	457	433	365	292	391	381	370
Mathematical science	376	399	374	342	380	374	444
Computer science	1,036	1,284	1,205	1,074	971	1,092	1,049
Biological science	806	723	700	658	696	749	883
Agricultural science	158	100	88	110	100	113	126
Social sciences	3,614	3,341	3,556	3,938	4,426	5,052	5,463
Social science	2,863	2,680	2,911	3,144	3,547	4,070	4,364
Psychology	751	661	645	794	879	982	1,099
Non-S&E[2]	14,105	13,073	13,287	13,807	14,822	16,194	17,383
Grand total	22,031	20,959	20,972	21,637	23,270	25,569	27,482
	Black recipients from HBCUs						
Total science and engineering	2,240	2,337	2,112	2,086	2,211	2,450	2,761
Engineering	310	371	308	331	359	380	430
Sciences	1,930	1,966	1,804	1,755	1,852	2,070	2,331
Natural sciences	1,081	1,193	1,056	935	951	972	1,089
Physical science[1]	190	156	160	127	163	145	150
Mathematical science	184	213	179	134	164	150	196
Computer science	328	502	460	377	333	364	361
Biological science	299	264	206	231	231	238	317
Agricultural science	80	58	51	66	60	75	65
Social sciences	849	773	748	820	901	1,098	1,242
Social science	682	661	621	657	720	868	989
Psychology	167	112	127	163	181	230	253
Non-S&E[2]	4,168	3,833	3,532	3,668	3,945	4,316	4,798
Grand total	6,408	6,170	5,644	5,754	6,156	6,766	7,559
	Percent from HBCUs						
Total science and engineering	28.3	29.6	27.5	26.6	26.2	26.1	27.3
Engineering	21.0	23.1	22.0	23.4	24.2	23.5	24.4
Sciences	29.9	31.3	28.7	27.4	26.6	26.7	28.0
Natural sciences	38.2	40.6	38.7	37.8	37.5	35.9	37.9
Physical science[1]	41.6	36.0	43.8	43.5	41.7	38.1	40.5
Mathematical science	48.9	53.4	47.9	39.2	43.2	40.1	44.1
Computer science	31.7	39.1	38.2	35.1	34.3	33.3	34.4
Biological science	37.1	36.5	29.4	35.1	33.2	31.8	35.9
Agricultural science	50.6	58.0	58.0	60.0	60.0	66.4	51.6
Social sciences	23.5	23.1	21.0	20.8	20.4	21.7	22.7
Social science	23.8	24.7	21.3	20.9	20.3	21.3	22.7
Psychology	22.2	16.9	19.7	20.5	20.6	23.4	23.0
Non-S&E[2]	29.5	29.3	26.6	26.6	26.6	26.7	27.6
Grand total	29.1	29.4	26.9	26.6	26.5	26.5	27.5

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

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Table 15. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all black recipients						
Total science and engineering	9,114	9,344	9,700	10,400	11,539	13,056	14,322
Engineering	560	709	670	656	745	748	813
Sciences	8,554	8,635	9,030	9,744	10,794	12,308	13,509
Natural sciences	3,176	3,585	3,273	3,306	3,296	3,692	4,100
Physical science[1]	373	390	332	358	362	435	466
Mathematical science	394	435	418	378	431	530	521
Computer science	1,107	1,536	1,252	1,173	1,026	998	1,164
Biological science	1,241	1,167	1,216	1,336	1,415	1,636	1,856
Agricultural science	61	57	55	61	62	93	93
Social sciences	5,378	5,050	5,757	6,438	7,498	8,616	9,409
Social science	3,462	3,260	3,659	4,082	4,689	5,419	5,890
Psychology	1,916	1,790	2,098	2,356	2,809	3,197	3,519
Non-S&E[2]	25,141	23,531	24,957	26,064	28,973	31,447	33,731
Grand total	34,255	32,875	34,657	36,464	40,512	44,503	48,053
	Black recipients from HBCUs						
Total science and engineering	2,693	2,892	2,942	3,104	3,468	3,913	4,607
Engineering	128	186	166	193	230	214	270
Sciences	2,565	2,706	2,776	2,911	3,238	3,699	4,337
Natural sciences	1,288	1,557	1,457	1,418	1,412	1,627	1,932
Physical science[1]	173	190	160	169	195	231	240
Mathematical science	198	212	202	173	205	270	267
Computer science	412	685	588	522	415	416	543
Biological science	484	450	487	533	561	668	838
Agricultural science	21	20	20	21	36	42	44
Social sciences	1,277	1,149	1,319	1,493	1,826	2,072	2,405
Social science	899	796	896	994	1,166	1,333	1,518
Psychology	378	353	423	499	660	739	887
Non-S&E[2]	7,640	7,020	6,903	7,076	7,965	8,583	9,275
Grand total	10,333	9,912	9,845	10,180	11,433	12,496	13,882
	Percent from HBCUs						
Total science and engineering	29.5	31.0	30.3	29.8	30.1	30.0	32.2
Engineering	22.9	26.2	24.8	29.4	30.9	28.6	33.2
Sciences	30.0	31.3	30.7	29.9	30.0	30.1	32.1
Natural sciences	40.6	43.4	44.5	42.9	42.8	44.1	47.1
Physical science[1]	46.4	48.7	48.2	47.2	53.9	53.1	51.5
Mathematical science	50.3	48.7	48.3	45.8	47.6	50.9	51.2
Computer science	37.2	44.6	47.0	44.5	40.4	41.7	46.6
Biological science	39.0	38.6	40.0	39.9	39.6	40.8	45.2
Agricultural science	34.4	35.1	36.4	34.4	58.1	45.2	47.3
Social sciences	23.7	22.8	22.9	23.2	24.4	24.0	25.6
Social science	26.0	24.4	24.5	24.4	24.9	24.6	25.8
Psychology	19.7	19.7	20.2	21.2	23.5	23.1	25.2
Non-S&E[2]	30.4	29.8	27.7	27.1	27.5	27.3	27.5
Grand total	30.2	30.2	28.4	27.9	28.2	28.1	28.9

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 16. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all black recipients						
Total science and engineering	1,742	1,784	1,652	1,847	2,090	2,356	2,554
Engineering	330	403	355	387	398	466	564
Sciences	1,412	1,381	1,297	1,460	1,692	1,890	1,990
Natural sciences	523	581	495	527	644	699	716
Physical science[1]	89	79	78	67	73	98	105
Mathematical science	53	73	59	70	100	77	98
Computer science	180	207	198	232	283	316	308
Biological science	151	167	124	110	137	149	135
Agricultural science	50	55	36	28	51	59	70
Social sciences	889	800	802	933	1,048	1,191	1,274
Social science	463	424	407	462	594	660	730
Psychology	426	376	395	471	454	531	544
Non-S&E[2]	12,181	11,347	11,748	12,582	13,720	15,000	16,282
Grand total	13,923	13,131	13,400	14,429	15,810	17,356	18,836
	Black recipients from HBCUs						
Total science and engineering	284	318	314	339	391	426	453
Engineering	34	27	38	42	37	41	41
Sciences	250	291	276	297	354	385	412
Natural sciences	157	177	143	153	180	188	204
Physical science[1]	28	23	23	24	24	21	36
Mathematical science	16	17	13	17	21	17	23
Computer science	32	39	42	63	59	76	75
Biological science	58	67	47	37	46	47	38
Agricultural science	23	31	18	12	30	27	32
Social sciences	93	114	133	144	174	197	208
Social science	56	67	78	69	114	125	107
Psychology	37	47	55	75	60	72	101
Non-S&E[2]	2,316	2,115	2,047	2,016	2,127	2,199	2,324
Grand total	2,600	2,433	2,361	2,355	2,518	2,625	2,777
	Percent from HBCUs						
Total science and engineering	16.3	17.8	19.0	18.4	18.7	18.1	17.7
Engineering	10.3	6.7	10.7	10.9	9.3	8.8	7.3
Sciences	17.7	21.1	21.3	20.3	20.9	20.4	20.7
Natural sciences	30.0	30.5	28.9	29.0	28.0	26.9	28.5
Physical science[1]	31.5	29.1	29.5	27.6	32.9	21.4	34.3
Mathematical science	30.2	23.3	22.0	24.3	21.0	22.1	23.5
Computer science	17.8	18.8	21.2	27.2	20.8	24.1	24.4
Biological science	38.4	40.1	37.9	33.6	33.6	31.5	28.1
Agricultural science	46.0	56.4	50.0	42.9	58.8	45.8	45.7
Social sciences	10.5	14.2	16.6	15.4	16.6	16.5	16.3
Social science	12.1	15.8	19.2	14.9	19.2	18.9	14.7
Psychology	8.7	12.5	13.9	15.9	13.2	13.6	18.6
Non-S&E[2]	19.0	18.6	17.4	16.0	15.5	14.7	14.3
Grand total	18.7	18.5	17.6	16.3	15.9	15.1	14.7

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 17. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all black recipients						
Total science and engineering	973	990	878	950	1,028	1,166	1,253
Engineering	274	315	262	287	299	332	407
Sciences	699	675	616	663	729	834	846
Natural sciences	300	338	290	307	338	382	386
Physical science[1]	61	45	56	61	43	66	58
Mathematical science	34	45	32	37	53	44	48
Computer science	108	126	119	140	150	175	193
Biological science	67	80	59	51	58	61	47
Agricultural science	30	42	24	18	34	36	40
Social sciences	399	337	326	356	391	452	460
Social science	253	221	206	223	262	315	345
Psychology	146	116	120	133	129	137	115
Non-S&E[2]	4,210	3,860	4,046	4,187	4,562	4,582	5,187
Grand total	5,183	4,850	4,924	5,137	5,590	5,748	6,440
	Black recipients from HBCUs						
Total science and engineering	141	155	154	164	172	195	191
Engineering	30	15	26	32	29	27	23
Sciences	111	140	128	132	143	168	168
Natural sciences	75	93	76	84	90	100	106
Physical science[1]	17	14	14	14	14	16	19
Mathematical science	10	10	8	9	7	7	9
Computer science	15	19	24	35	33	46	44
Biological science	22	28	19	17	15	15	11
Agricultural science	11	22	11	9	21	16	23
Social sciences	36	47	52	48	53	68	62
Social science	26	36	39	28	39	47	40
Psychology	10	11	13	20	14	21	22
Non-S&E[2]	739	620	572	581	594	583	630
Grand total	880	775	726	745	766	778	821
	Percent from HBCUs						
Total science and engineering	14.5	15.7	17.5	17.3	16.7	16.7	15.2
Engineering	10.9	4.8	9.9	11.1	9.7	8.1	5.7
Sciences	15.9	20.7	20.8	19.9	19.6	20.1	19.9
Natural sciences	25.0	27.5	26.2	27.4	26.6	26.2	27.5
Physical science[1]	27.9	31.1	25.0	23.0	32.6	24.2	32.8
Mathematical science	29.4	22.2	25.0	24.3	13.2	15.9	18.8
Computer science	13.9	15.1	20.2	25.0	22.0	26.3	22.8
Biological science	32.8	35.0	32.2	33.3	25.9	24.6	23.4
Agricultural science	36.7	52.4	45.8	50.0	61.8	44.4	57.5
Social sciences	9.0	13.9	16.0	13.5	13.6	15.0	13.5
Social science	10.3	16.3	18.9	12.6	14.9	14.9	11.6
Psychology	6.8	9.5	10.8	15.0	10.9	15.3	19.1
Non-S&E[2]	17.6	16.1	14.1	13.9	13.0	12.7	12.1
Grand total	17.0	16.0	14.7	14.5	13.7	13.5	12.7

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 18. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all black recipients						
Total science and engineering	769	794	774	897	1,062	1,190	1,301
Engineering	56	88	93	100	99	134	157
Sciences	713	706	681	797	963	1,056	1,144
Natural sciences	223	243	205	220	306	317	330
Physical science[1]	28	34	22	26	30	32	47
Mathematical science	19	28	27	33	47	33	50
Computer science	72	81	79	92	133	141	115
Biological science	84	87	65	59	79	88	88
Agricultural science	20	13	12	10	17	23	30
Social sciences	490	463	476	577	657	739	814
Social science	210	203	201	239	332	345	385
Psychology	280	260	275	338	325	394	429
Non-S&E[2]	7,971	7,487	7,702	8,395	9,158	10,418	11,095
Grand total	8,740	8,281	8,476	9,292	10,220	11,608	12,396
	Black recipients from HBCUs						
Total science and engineering	143	163	160	175	219	231	262
Engineering	4	12	12	10	8	14	18
Sciences	139	151	148	165	211	217	244
Natural sciences	82	84	67	69	90	88	98
Physical science[1]	11	9	9	10	10	5	17
Mathematical science	6	7	5	8	14	10	14
Computer science	17	20	18	28	26	30	31
Biological science	36	39	28	20	31	32	27
Agricultural science	12	9	7	3	9	11	9
Social sciences	57	67	81	96	121	129	146
Social science	30	31	39	41	75	78	67
Psychology	27	36	42	55	46	51	79
Non-S&E[2]	1,577	1,495	1,475	1,435	1,533	1,616	1,694
Grand total	1,720	1,658	1,635	1,610	1,752	1,847	1,956
	Percent from HBCUs						
Total science and engineering	18.6	20.5	20.7	19.5	20.6	19.4	20.1
Engineering	7.1	13.6	12.9	10.0	8.1	10.4	11.5
Sciences	19.5	21.4	21.7	20.7	21.9	20.5	21.3
Natural sciences	36.8	34.6	32.7	31.4	29.4	27.8	29.7
Physical science[1]	39.3	26.5	40.9	38.5	33.3	15.6	36.2
Mathematical science	31.6	25.0	18.5	24.2	29.8	30.3	28.0
Computer science	23.6	24.7	22.8	30.4	19.5	21.3	27.0
Biological science	42.9	44.8	43.1	33.9	39.2	36.4	30.7
Agricultural science	60.0	69.2	58.3	30.0	52.9	47.8	30.0
Social sciences	11.6	14.5	17.0	16.6	18.4	17.5	17.9
Social science	14.3	15.3	19.4	17.2	22.6	22.6	17.4
Psychology	9.6	13.8	15.3	16.3	14.2	12.9	18.4
Non-S&E[2]	19.8	20.0	19.2	17.1	16.7	15.5	15.3
Grand total	19.7	20.0	19.3	17.3	17.1	15.9	15.8

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 19. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all black recipients						
Total science and engineering	375	320	376	379	459	406	472
Engineering	34	25	35	40	55	49	51
Sciences	341	295	341	339	404	357	421
Natural sciences	110	109	115	106	131	117	150
Physical science[1]	31	22	35	33	34	32	45
Mathematical science	7	11	8	4	11	4	8
Computer science	3	2	1	1	8	5	6
Biological science	53	60	57	51	60	61	74
Agricultural science	16	14	14	17	18	15	17
Social sciences	231	186	226	233	273	240	271
Social science	126	93	129	117	144	137	152
Psychology	105	93	97	116	129	103	119
Non-S&E[2]	670	593	597	680	706	705	815
Grand total	1,045	913	973	1,059	1,165	1,111	1,287
	Black recipients from HBCUs						
Total science and engineering	38	35	35	37	48	42	59
Engineering	0	0	1	0	3	2	0
Sciences	38	35	34	37	45	40	59
Natural sciences	20	15	15	15	16	11	25
Physical science[1]	5	1	3	4	5	0	6
Mathematical science	0	0	3	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	15	14	9	11	11	11	18
Agricultural science	0	0	0	0	0	0	1
Social sciences	18	20	19	22	29	29	34
Social science	11	11	13	14	10	19	22
Psychology	7	9	6	8	19	10	12
Non-S&E[2]	40	43	52	106	63	62	75
Grand total	78	78	87	143	111	104	134
	Percent from HBCUs						
Total science and engineering	10.1	10.9	9.3	9.8	10.5	10.3	12.5
Engineering	0	0	2.9	0	5.5	4.1	0
Sciences	11.1	11.9	10.0	10.9	11.1	11.2	14.0
Natural sciences	18.2	13.8	13.0	14.2	12.2	9.4	16.7
Physical science[1]	16.1	4.5	8.6	12.1	14.7	0	13.3
Mathematical science	0	0	37.5	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	28.3	23.3	15.8	21.6	18.3	18.0	24.3
Agricultural science	0	0	0	0	0	0	5.9
Social sciences	7.8	10.8	8.4	9.4	10.6	12.1	12.5
Social science	8.7	11.8	10.1	12.0	6.9	13.9	14.5
Psychology	6.7	9.7	6.2	6.9	14.7	9.7	10.1
Non-S&E[2]	6.0	7.3	8.7	15.6	8.9	8.8	9.2
Grand total	7.5	8.5	8.9	13.5	9.5	9.4	10.4

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 20. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all black recipients						
Total science and engineering	237	189	222	231	268	240	265
Engineering	30	24	32	34	47	43	40
Sciences	207	165	190	197	221	197	225
Natural sciences	81	73	78	74	85	82	99
Physical science[1]	24	18	27	24	28	25	35
Mathematical science	7	9	5	3	7	4	7
Computer science	3	1	0	1	4	4	2
Biological science	32	35	33	30	29	37	42
Agricultural science	15	10	13	16	17	12	13
Social sciences	126	92	112	123	136	115	126
Social science	84	58	76	79	92	87	82
Psychology	42	34	36	44	44	28	44
Non-S&E[2]	260	251	240	258	284	280	324
Grand total	497	440	462	489	552	520	589
	Black recipients from HBCUs						
Total science and engineering	25	20	20	23	28	22	29
Engineering	0	0	1	0	3	2	0
Sciences	25	20	19	23	25	20	29
Natural sciences	14	8	9	8	11	4	14
Physical science[1]	5	1	2	2	4	0	5
Mathematical science	0	0	2	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	9	7	5	6	7	4	8
Agricultural science	0	0	0	0	0	0	1
Social sciences	11	12	10	15	14	16	15
Social science	7	9	9	11	8	14	12
Psychology	4	3	1	4	6	2	3
Non-S&E[2]	15	18	20	40	27	25	26
Grand total	40	38	40	63	55	47	55
	Percent from HBCUs						
Total science and engineering	10.5	10.6	9.0	10.0	10.4	9.2	10.9
Engineering	0	0	3.1	0	6.4	4.7	0
Sciences	12.1	12.1	10.0	11.7	11.3	10.2	12.9
Natural sciences	17.3	11.0	11.5	10.8	12.9	4.9	14.1
Physical science[1]	20.8	5.6	7.4	8.3	14.3	0	14.3
Mathematical science	0	0	40.0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	28.1	20.0	15.2	20.0	24.1	10.8	19.0
Agricultural science	0	0	0	0	0	0	7.7
Social sciences	8.7	13.0	8.9	12.2	10.3	13.9	11.9
Social science	8.3	15.5	11.8	13.9	8.7	16.1	14.6
Psychology	9.5	8.8	2.8	9.1	13.6	7.1	6.8
Non-S&E[2]	5.8	7.2	8.3	15.5	9.5	8.9	8.0
Grand total	8.0	8.6	8.7	12.9	10.0	9.0	9.3

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 21. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all black recipients						
Total science and engineering	138	131	154	148	191	166	207
Engineering	4	1	3	6	8	6	11
Sciences	134	130	151	142	183	160	196
Natural sciences	29	36	37	32	46	35	51
Physical science[1]	7	4	8	9	6	7	10
Mathematical science	0	2	3	1	4	0	1
Computer science	0	1	1	0	4	1	4
Biological science	21	25	24	21	31	24	32
Agricultural science	1	4	1	1	1	3	4
Social sciences	105	94	114	110	137	125	145
Social science	42	35	53	38	52	50	70
Psychology	63	59	61	72	85	75	75
Non-S&E[2]	410	342	357	422	422	425	491
Grand total	548	473	511	570	613	591	698
	Black recipients from HBCUs						
Total science and engineering	13	15	15	14	20	20	30
Engineering	0	0	0	0	0	0	0
Sciences	13	15	15	14	20	20	30
Natural sciences	6	7	6	7	5	7	11
Physical science[1]	0	0	1	2	1	0	1
Mathematical science	0	0	1	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	6	7	4	5	4	7	10
Agricultural science	0	0	0	0	0	0	0
Social sciences	7	8	9	7	15	13	19
Social science	4	2	4	3	2	5	10
Psychology	3	6	5	4	13	8	9
Non-S&E[2]	25	25	32	66	36	37	49
Grand total	38	40	47	80	56	57	79
	Percent from HBCUs						
Total science and engineering	9.4	11.5	9.7	9.5	10.5	12.0	14.5
Engineering	0	0	0	0	0	0	0
Sciences	9.7	11.5	9.9	9.9	10.9	12.5	15.3
Natural sciences	20.7	19.4	16.2	21.9	10.9	20.0	21.6
Physical science[1]	0	0	12.5	22.2	16.7	0	10.0
Mathematical science	0	0	33.3	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	28.6	28.0	16.7	23.8	12.9	29.2	31.3
Agricultural science	0	0	0	0	0	0	0
Social sciences	6.7	8.5	7.9	6.4	10.9	10.4	13.1
Social science	9.5	5.7	7.5	7.9	3.8	10.0	14.3
Psychology	4.8	10.2	8.2	5.6	15.3	10.7	12.0
Non-S&E[2]	6.1	7.3	9.0	15.6	8.5	8.7	10.0
Grand total	6.9	8.5	9.2	14.0	9.1	9.6	11.3

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 22. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all Hispanic recipients						
Total science and engineering	12,031	12,419	13,327	13,918	15,351	17,391	18,442
Engineering	2,187	2,554	2,561	2,511	2,566	2,733	2,961
Sciences	9,844	9,865	10,766	11,407	12,785	14,658	15,481
Natural sciences	4,359	4,660	4,417	4,357	4,705	4,892	5,034
Physical science[1]	660	585	563	522	533	546	599
Mathematical science	335	321	373	413	480	482	470
Computer science	1,045	1,375	1,195	1,085	1,215	1,173	1,096
Biological science	2,069	2,146	2,090	2,119	2,264	2,477	2,652
Agricultural science	250	233	196	218	213	214	217
Social sciences	5,485	5,205	6,349	7,050	8,080	9,766	10,447
Social science	3,751	3,503	4,197	4,645	5,334	6,519	6,860
Psychology	1,734	1,702	2,152	2,405	2,746	3,247	3,587
Non-S&E[2]	23,835	25,113	27,400	29,162	32,945	34,869	38,550
Grand total	35,866	37,532	40,727	43,080	48,296	52,260	56,992
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	2,994	3,065	3,056	2,983	2,952	3,007	3,001
Engineering	412	584	651	626	554	686	697
Sciences	2,582	2,481	2,405	2,357	2,398	2,321	2,304
Natural sciences	1,442	1,556	1,479	1,447	1,446	1,339	1,300
Physical science[1]	244	173	184	184	154	172	172
Mathematical science	78	58	69	69	108	34	41
Computer science	219	337	326	261	327	296	254
Biological science	828	916	858	862	797	837	833
Agricultural science	73	72	42	71	60	0	0
Social sciences	1,140	925	926	910	952	982	1,004
Social science	737	576	501	495	523	496	508
Psychology	403	349	425	415	429	486	496
Non-S&E[2]	7,483	8,776	9,038	9,074	9,421	9,557	10,137
Grand total	10,477	11,841	12,094	12,057	12,373	12,564	13,138
	Percent from institutions in Puerto Rico						
Total science and engineering	24.9	24.7	22.9	21.4	19.2	17.3	16.3
Engineering	18.8	22.9	25.4	24.9	21.6	25.1	23.5
Sciences	26.2	25.1	22.3	20.7	18.8	15.8	14.9
Natural sciences	33.1	33.4	33.5	33.2	30.7	27.4	25.8
Physical science[1]	37.0	29.6	32.7	35.2	28.9	31.5	28.7
Mathematical science	23.3	18.1	18.5	16.7	22.5	7.1	8.7
Computer science	21.0	24.5	27.3	24.1	26.9	25.2	23.2
Biological science	40.0	42.7	41.1	40.7	35.2	33.8	31.4
Agricultural science	29.2	30.9	21.4	32.6	28.2	0	0
Social sciences	20.8	17.8	14.6	12.9	11.8	10.1	9.6
Social science	19.6	16.4	11.9	10.7	9.8	7.6	7.4
Psychology	23.2	20.5	19.7	17.3	15.6	15.0	13.8
Non-S&E[2]	31.4	34.9	33.0	31.1	28.6	27.4	26.3
Grand total	29.2	31.5	29.7	28.0	25.6	24.0	23.1

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 23. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all Hispanic recipients						
Total science and engineering	6,751	6,974	7,318	7,434	7,888	8,730	9,160
Engineering	1,863	2,100	2,100	2,035	2,039	2,187	2,355
Sciences	4,888	4,874	5,218	5,399	5,849	6,543	6,805
Natural sciences	2,380	2,516	2,432	2,328	2,458	2,497	2,608
Physical science[1]	441	377	362	311	318	326	361
Mathematical science	189	196	224	249	259	279	273
Computer science	582	766	750	669	738	724	700
Biological science	997	1,018	965	955	1,019	1,043	1,144
Agricultural science	171	159	131	144	124	125	130
Social sciences	2,508	2,358	2,786	3,071	3,391	4,046	4,197
Social science	1,966	1,845	2,153	2,384	2,634	3,220	3,269
Psychology	542	513	633	687	757	826	928
Non-S&E[2]	8,923	9,070	10,117	10,527	12,238	12,667	13,955
Grand total	15,674	16,044	17,435	17,961	20,126	21,397	23,115
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	1,457	1,524	1,559	1,462	1,365	1,362	1,339
Engineering	362	453	525	481	398	498	511
Sciences	1,095	1,071	1,034	981	967	864	828
Natural sciences	644	730	671	626	612	520	496
Physical science[1]	132	98	91	90	70	78	70
Mathematical science	41	30	39	47	50	20	24
Computer science	98	172	197	143	170	159	147
Biological science	316	377	322	302	293	263	255
Agricultural science	57	53	22	44	29	0	0
Social sciences	451	341	363	355	355	344	332
Social science	341	272	257	252	245	243	211
Psychology	110	69	106	103	110	101	121
Non-S&E[2]	2,255	2,492	2,710	2,689	3,073	2,746	2,869
Grand total	3,712	4,016	4,269	4,151	4,438	4,108	4,208
	Percent from institutions in Puerto Rico						
Total science and engineering	21.6	21.9	21.3	19.7	17.3	15.6	14.6
Engineering	19.4	21.6	25.0	23.6	19.5	22.8	21.7
Sciences	22.4	22.0	19.8	18.2	16.5	13.2	12.2
Natural sciences	27.1	29.0	27.6	26.9	24.9	20.8	19.0
Physical science[1]	29.9	26.0	25.1	28.9	22.0	23.9	19.4
Mathematical science	21.7	15.3	17.4	18.9	19.3	7.2	8.8
Computer science	16.8	22.5	26.3	21.4	23.0	22.0	21.0
Biological science	31.7	37.0	33.4	31.6	28.8	25.2	22.3
Agricultural science	33.3	33.3	16.8	30.6	23.4	0	0
Social sciences	18.0	14.5	13.0	11.6	10.5	8.5	7.9
Social science	17.3	14.7	11.9	10.6	9.3	7.5	6.5
Psychology	20.3	13.5	16.7	15.0	14.5	12.2	13.0
Non-S&E[2]	25.3	27.5	26.8	25.5	25.1	21.7	20.6
Grand total	23.7	25.0	24.5	23.1	22.1	19.2	18.2

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

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Table 24. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all Hispanic recipients						
Total science and engineering	5,280	5,445	6,009	6,484	7,463	8,661	9,282
Engineering	324	454	461	476	527	546	606
Sciences	4,956	4,991	5,548	6,008	6,936	8,115	8,676
Natural sciences	1,979	2,144	1,985	2,029	2,247	2,395	2,426
Physical science[1]	219	208	201	211	215	220	238
Mathematical science	146	125	149	164	221	203	197
Computer science	463	609	445	416	477	449	396
Biological science	1,072	1,128	1,125	1,164	1,245	1,434	1,508
Agricultural science	79	74	65	74	89	89	87
Social sciences	2,977	2,847	3,563	3,979	4,689	5,720	6,250
Social science	1,785	1,658	2,044	2,261	2,700	3,299	3,591
Psychology	1,192	1,189	1,519	1,718	1,989	2,421	2,659
Non-S&E[2]	14,912	16,043	17,283	18,635	20,707	22,202	24,595
Grand total	20,192	21,488	23,292	25,119	28,170	30,863	33,877
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	1,537	1,541	1,497	1,521	1,587	1,645	1,662
Engineering	50	131	126	145	156	188	186
Sciences	1,487	1,410	1,371	1,376	1,431	1,457	1,476
Natural sciences	798	826	808	821	834	819	804
Physical science[1]	112	75	93	94	84	94	102
Mathematical science	37	28	30	22	58	14	17
Computer science	121	165	129	118	157	137	107
Biological science	512	539	536	560	504	574	578
Agricultural science	16	19	20	27	31	0	0
Social sciences	689	584	563	555	597	638	672
Social science	396	304	244	243	278	253	297
Psychology	293	280	319	312	319	385	375
Non-S&E[2]	5,228	6,284	6,328	6,385	6,348	6,811	7,268
Grand total	6,765	7,825	7,825	7,906	7,935	8,456	8,930
	Percent from institutions in Puerto Rico						
Total science and engineering	29.1	28.3	24.9	23.5	21.3	19.0	17.9
Engineering	15.4	28.9	27.3	30.5	29.6	34.4	30.7
Sciences	30.0	28.3	24.7	22.9	20.6	18.0	17.0
Natural sciences	40.3	38.5	40.7	40.5	37.1	34.2	33.1
Physical science[1]	51.1	36.1	46.3	44.5	39.1	42.7	42.9
Mathematical science	25.3	22.4	20.1	13.4	26.2	6.9	8.6
Computer science	26.1	27.1	29.0	28.4	32.9	30.5	27.0
Biological science	47.8	47.8	47.6	48.1	40.5	40.0	38.3
Agricultural science	20.3	25.7	30.8	36.5	34.8	0	0
Social sciences	23.1	20.5	15.8	13.9	12.7	11.2	10.8
Social science	22.2	18.3	11.9	10.7	10.3	7.7	8.3
Psychology	24.6	23.5	21.0	18.2	16.0	15.9	14.1
Non-S&E[2]	35.1	39.2	36.6	34.3	30.7	30.7	29.6
Grand total	33.5	36.4	33.6	31.5	28.2	27.4	26.4

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 25. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all Hispanic recipients						
Total science and engineering	1,514	1,584	1,585	1,587	1,736	1,806	2,092
Engineering	346	512	468	446	468	488	581
Sciences	1,168	1,072	1,117	1,141	1,268	1,318	1,511
Natural sciences	481	493	444	431	494	503	574
Physical science[1]	127	122	92	98	96	93	114
Mathematical science	55	60	34	51	85	66	78
Computer science	94	123	144	118	128	149	162
Biological science	139	126	126	120	136	147	151
Agricultural science	66	62	49	44	49	49	69
Social sciences	687	579	673	710	774	815	937
Social science	343	308	313	341	383	398	474
Psychology	344	271	360	369	391	419	463
Non-S&E[2]	6,210	6,180	6,538	6,899	7,929	8,427	9,254
Grand total	7,724	7,764	8,123	8,486	9,665	10,233	11,346
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	169	184	214	207	214	140	160
Engineering	9	11	22	32	23	0	1
Sciences	160	173	192	175	191	140	159
Natural sciences	72	99	62	65	83	27	47
Physical science[1]	20	13	19	21	16	9	12
Mathematical science	6	8	6	7	17	7	14
Computer science	0	0	7	0	0	0	4
Biological science	30	44	17	30	39	11	17
Agricultural science	16	34	13	7	11	0	0
Social sciences	88	74	130	110	108	113	112
Social science	17	33	25	25	31	32	30
Psychology	71	41	105	85	77	81	82
Non-S&E[2]	696	936	1,033	855	1,009	1,084	1,081
Grand total	865	1,120	1,247	1,062	1,223	1,224	1,241
	Percent from institutions in Puerto Rico						
Total science and engineering	11.2	11.6	13.5	13.0	12.3	7.8	7.6
Engineering	2.6	2.1	4.7	7.2	4.9	0	.2
Sciences	13.7	16.1	17.2	15.3	15.1	10.6	10.5
Natural sciences	15.0	20.1	14.0	15.1	16.8	5.4	8.2
Physical science[1]	15.7	10.7	20.7	21.4	16.7	9.7	10.5
Mathematical science	10.9	13.3	17.6	13.7	20.0	10.6	17.9
Computer science	0	0	4.9	0	0	0	2.5
Biological science	21.6	34.9	13.5	25.0	28.7	7.5	11.3
Agricultural science	24.2	54.8	27.1	15.9	22.4	0	0
Social sciences	12.8	12.8	19.3	15.5	14.0	13.9	12.0
Social science	5.0	10.7	8.0	7.3	8.1	8.1	6.3
Psychology	20.6	15.1	29.2	23.0	19.7	19.3	17.7
Non-S&E[2]	11.2	15.1	15.8	12.4	12.7	12.9	11.7
Grand total	11.2	14.4	15.4	12.5	12.7	12.0	10.9

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics: data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 25. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all Hispanic recipients						
Total science and engineering	939	1,045	970	959	992	1,066	1,255
Engineering	304	444	394	373	378	408	480
Sciences	635	601	576	586	614	658	775
Natural sciences	307	318	282	275	294	309	341
Physical science[1]	95	88	65	63	73	64	76
Mathematical science	31	41	21	33	52	47	50
Computer science	65	91	100	93	84	98	104
Biological science	62	53	62	61	54	69	76
Agricultural science	54	45	34	25	31	31	35
Social sciences	328	283	294	311	320	349	434
Social science	195	187	176	178	196	218	282
Psychology	133	96	118	133	124	131	152
Non-S&E[2]	2,398	2,465	2,620	2,747	3,115	3,299	3,602
Grand total	3,337	3,510	3,590	3,706	4,107	4,365	4,857
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	75	93	103	103	80	48	56
Engineering	8	11	21	26	15	0	1
Sciences	67	82	82	77	65	48	55
Natural sciences	40	54	35	33	39	12	23
Physical science[1]	8	8	14	11	9	4	6
Mathematical science	3	4	2	3	9	4	11
Computer science	0	0	4	0	0	0	1
Biological science	14	15	5	14	13	4	5
Agricultural science	15	27	10	5	8	0	0
Social sciences	27	28	47	44	26	36	32
Social science	8	18	16	10	8	14	16
Psychology	19	10	31	34	18	22	16
Non-S&E[2]	208	276	313	262	306	350	346
Grand total	283	369	416	365	386	398	402
	Percent from institutions in Puerto Rico						
Total science and engineering	8.0	8.9	10.6	10.7	8.1	4.5	4.5
Engineering	2.6	2.5	5.3	7.0	4.0	.0	.2
Sciences	10.6	13.6	14.2	13.1	10.6	7.3	7.1
Natural sciences	13.0	17.0	12.4	12.0	13.3	3.9	6.7
Physical science[1]	8.4	9.1	21.5	17.5	12.3	6.3	7.9
Mathematical science	9.7	9.8	9.5	9.1	17.3	8.5	22.0
Computer science	0	0	4.0	0	0	.0	1.0
Biological science	22.6	28.3	8.1	23.0	24.1	5.8	6.6
Agricultural science	27.8	60.0	29.4	20.0	25.8	.0	0
Social sciences	8.2	9.9	16.0	14.1	8.1	10.3	7.4
Social science	4.1	9.6	9.1	5.6	4.1	6.4	5.7
Psychology	14.3	10.4	26.3	25.6	14.5	16.8	10.5
Non-S&E[2]	8.7	11.2	11.9	9.5	9.8	10.6	9.6
Grand total	8.5	10.5	11.6	9.8	9.4	9.1	8.3

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 27. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all Hispanic recipients						
Total science and engineering	575	539	615	628	744	740	837
Engineering	42	68	74	73	90	80	101
Sciences	533	471	541	555	654	660	736
Natural sciences	174	175	162	156	200	194	233
Physical science[1]	32	34	27	35	23	29	38
Mathematical science	24	19	13	18	33	19	28
Computer science	29	32	44	25	44	51	58
Biological science	77	73	64	59	82	77	75
Agricultural science	12	17	14	19	18	18	34
Social sciences	359	296	379	399	454	466	503
Social science	148	121	137	163	187	178	192
Psychology	211	175	242	236	267	288	311
Non-S&E[2]	3,812	3,715	3,918	4,152	4,814	5,128	5,652
Grand total	4,387	4,254	4,533	4,780	5,558	5,868	6,489
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	94	91	111	104	134	92	104
Engineering	1	0	1	6	8	0	0
Sciences	93	91	110	98	126	92	104
Natural sciences	32	45	27	32	44	15	24
Physical science[1]	12	5	5	10	7	5	6
Mathematical science	3	4	4	4	8	3	3
Computer science	0	0	3	0	0	0	3
Biological science	16	29	12	16	26	7	12
Agricultural science	1	7	3	2	3	0	0
Social sciences	61	46	83	66	82	77	80
Social science	9	15	9	15	23	18	14
Psychology	52	31	74	51	59	59	66
Non-S&E[2]	488	660	720	593	703	734	735
Grand total	582	751	831	697	837	826	839
	Percent from institutions in Puerto Rico						
Total science and engineering	16.3	16.9	18.0	16.6	18.0	12.4	12.4
Engineering	2.4	0	1.4	8.2	8.9	.0	0
Sciences	17.4	19.3	20.3	17.7	19.3	13.9	14.1
Natural sciences	18.4	25.7	16.7	20.5	22.0	7.7	10.3
Physical science[1]	37.5	14.7	18.5	28.6	30.4	17.2	15.8
Mathematical science	12.5	21.1	30.8	22.2	24.2	15.8	10.7
Computer science	0	0	6.8	0	0	0	5.2
Biological science	20.8	39.7	18.8	27.1	31.7	9.1	16.0
Agricultural science	8.3	41.2	21.4	10.5	16.7	.0	.0
Social sciences	17.0	15.5	21.9	16.5	18.1	16.5	15.9
Social science	6.1	12.4	6.6	9.2	12.3	10.1	7.3
Psychology	24.6	17.7	30.6	21.6	22.1	20.5	21.2
Non-S&E[2]	12.8	17.8	18.4	14.3	14.6	14.3	13.0
Grand total	13.3	17.7	18.3	14.6	15.1	14.1	12.9

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 28. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all Hispanic recipients						
Total science and engineering	297	363	385	471	496	522	546
Engineering	22	35	47	54	61	71	65
Sciences	275	328	338	417	435	451	481
Natural sciences	125	157	174	214	215	232	251
Physical science[1]	36	62	69	86	81	89	94
Mathematical science	12	11	11	11	9	12	16
Computer science	6	4	4	5	12	8	7
Biological science	59	64	71	89	97	102	114
Agricultural science	12	16	19	23	16	21	20
Social sciences	150	171	164	203	220	219	230
Social science	81	76	71	94	98	83	97
Psychology	69	95	93	109	122	136	133
Non-S&E[2]	343	353	314	371	377	397	430
Grand total	640	716	699	842	873	919	976
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	5	6	12	18	12	29	16
Engineering	0	0	0	0	0	0	0
Sciences	5	6	12	18	12	29	16
Natural sciences	4	5	5	8	5	5	8
Physical science[1]	3	4	4	6	3	4	6
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	1	1	1	2	2	1	2
Agricultural science	0	0	0	0	0	0	0
Social sciences	1	1	7	10	7	24	8
Social science	1	1	1	0	1	5	0
Psychology	0	0	6	10	6	19	8
Non-S&E[2]	4	7	5	16	13	24	24
Grand total	9	13	17	34	25	53	40
	Percent from institutions in Puerto Rico						
Total science and engineering	1.7	1.7	3.1	3.8	2.4	5.6	2.9
Engineering	0	0	0	0	0	0	0
Sciences	1.8	1.8	3.6	4.3	2.8	6.4	3.3
Natural sciences	3.2	3.2	2.9	3.7	2.3	2.2	3.2
Physical science[1]	8.3	6.5	5.8	7.0	3.7	4.5	6.4
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	1.7	1.6	1.4	2.2	2.1	1.0	1.8
Agricultural science	0	0	0	0	0	0	0
Social sciences	.7	6	4.3	4.9	3.2	11.0	3.5
Social science	1.2	1.3	1.4	0	1.0	6.0	0
Psychology	0	0	6.5	9.2	4.9	14.0	6.0
Non-S&E[2]	1.2	2.0	1.6	4.3	3.4	6.0	5.6
Grand total	1.4	1.8	2.4	4.0	2.9	5.8	4.1

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

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Table 29. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total: all Hispanic recipients						
Total science and engineering	183	222	230	292	309	313	319
Engineering	22	30	39	45	51	56	53
Sciences	161	192	191	247	258	257	266
Natural sciences	83	109	122	140	154	154	162
Physical science[1]	28	44	48	56	68	63	70
Mathematical science	7	9	7	7	5	9	14
Computer science	4	4	1	4	11	7	6
Biological science	36	40	50	56	57	59	57
Agricultural science	8	12	16	17	13	16	15
Social sciences	78	83	69	107	104	103	104
Social science	50	51	39	55	52	47	59
Psychology	28	32	30	52	52	56	45
Non-S&E[2]	169	167	149	159	153	175	197
Grand total	352	389	379	451	462	488	516
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	1	4	3	6	3	12	7
Engineering	0	0	0	0	0	0	0
Sciences	1	4	3	6	3	12	7
Natural sciences	1	4	2	2	2	4	4
Physical science[1]	0	3	2	1	2	3	2
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	1	1	0	1	0	1	2
Agricultural science	0	0	0	0	0	0	0
Social sciences	0	0	1	4	1	8	3
Social science	0	0	0	0	0	0	0
Psychology	0	0	1	4	1	8	3
Non-S&E[2]	0	2	2	3	4	3	5
Grand total	1	6	5	9	7	15	12
	Percent from institutions in Puerto Rico						
Total science and engineering	0.5	1.8	1.3	2.1	1.0	3.8	2.2
Engineering	0	0	0	0	0	0	0
Sciences	.6	2.1	1.6	2.4	1.2	4.7	2.6
Natural sciences	1.2	3.7	1.6	1.4	1.3	2.6	2.5
Physical science[1]	0	6.8	4.2	1.8	2.9	4.8	2.9
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	2.8	2.5	0	1.8	0	1.7	3.5
Agricultural science	0	0	0	0	0	0	0
Social sciences	0	0	1.4	3.7	1.0	7.8	2.9
Social science	0	0	0	0	0	0	0
Psychology	0	0	3.3	7.7	1.9	14.3	6.7
Non-S&E[2]	0	1.2	1.3	1.9	2.6	1.7	2.5
Grand total	.3	1.5	1.3	2.0	1.5	3.1	2.3

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 30. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1985-93, selected years

Field	1985	1987	1989	1990	1991	1992	1993
	Total, all Hispanic recipients						
Total science and engineering	114	141	155	179	187	209	227
Engineering	0	5	8	9	10	15	12
Sciences	114	136	147	170	177	194	215
Natural sciences	42	48	52	74	61	78	89
Physical science[1]	8	18	21	30	13	26	24
Mathematical science	5	2	4	4	4	3	2
Computer science	2	0	3	1	1	1	1
Biological science	23	24	21	33	40	43	57
Agricultural science	4	4	3	6	3	5	5
Social sciences	72	88	95	96	116	116	126
Social science	31	25	32	39	46	36	38
Psychology	41	63	63	57	70	80	88
Non-S&E[2]	174	186	165	212	224	222	233
Grand total	288	327	320	391	411	431	460
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	4	2	9	12	9	17	9
Engineering	0	0	0	0	0	0	0
Sciences	4	2	9	12	9	17	9
Natural sciences	3	1	3	6	3	1	4
Physical science[1]	3	1	2	5	1	1	4
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	0	0	1	1	2	0	0
Agricultural science	0	0	0	0	0	0	0
Social sciences	1	1	6	6	6	16	5
Social science	1	1	1	0	1	5	0
Psychology	0	0	5	6	5	11	5
Non-S&E[2]	4	5	3	13	9	21	19
Grand total	8	7	12	25	18	38	28
	Percent from institutions in Puerto Rico						
Total science and engineering	3.5	1.4	5.8	6.7	4.8	8.1	4.0
Engineering	0	0	0	0	0	0	0
Sciences	3.5	1.5	6.1	7.1	5.1	8.8	4.2
Natural sciences	7.1	2.1	5.8	8.1	4.9	1.3	4.5
Physical science[1]	37.5	5.6	9.5	16.7	7.7	3.8	16.7
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	0	0	4.8	3.0	5.0	0	0
Agricultural science	0	0	0	0	0	0	0
Social sciences	1.4	1.1	6.3	6.3	5.2	13.8	4.0
Social science	3.2	4.0	3.1	0	2.2	13.9	0
Psychology	0	0	7.9	10.5	7.1	13.7	5.7
Non-S&E[2]	2.3	2.7	1.8	6.1	4.0	9.5	8.2
Grand total	2.8	2.1	3.7	6.4	4.4	8.8	6.1

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 31. Number of earned bachelor's degrees awarded in engineering technologies, by race/ethnicity and sex of recipient: 1985-93

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
	Total						
Total, all recipients	20,533	20,577	20,098	19,150	18,294	17,113	16,987
U.S. citizens and permanent residents, total[1]	19,120	19,359	18,942	18,059	17,080	16,138	16,109
White, non-Hispanics	16,673	16,541	16,156	15,251	14,279	13,286	13,245
Asians	542	807	839	755	768	778	768
Underrepresented minorities, total	1,905	2,011	1,947	2,053	2,033	2,074	2,096
Black, non-Hispanics	1,277	1,269	1,208	1,200	1,227	1,239	1,132
Hispanics	525	664	634	784	731	747	853
American Indians or Alaskan Natives	103	78	105	69	75	88	111
Nonresident aliens[2]	1,277	986	659	727	712	516	441
Unknown race/ethnicity or citizenship	136	232	497	364	502	459	437
	Men						
Total, all recipients	18,278	18,429	17,999	17,113	16,329	15,309	15,089
U.S. citizens and permanent residents, total[1]	16,979	17,301	16,922	16,091	15,211	14,418	14,280
White, non-Hispanics	14,911	14,933	14,578	13,679	12,819	12,069	11,908
Asians	492	727	743	679	700	690	678
Underrepresented minorities, total	1,576	1,641	1,601	1,733	1,692	1,659	1,694
Black, non-Hispanics	1,009	983	941	953	968	949	892
Hispanics	475	594	567	722	655	629	710
American Indians or Alaskan Natives	92	64	93	58	69	81	92
Nonresident aliens[2]	1,194	920	616	682	669	468	402
Unknown race/ethnicity or citizenship	105	208	461	340	449	423	407
	Women						
Total, all recipients	2,255	2,148	2,099	2,037	1,965	1,804	1,898
U.S. citizens and permanent residents, total[1]	2,141	2,058	2,020	1,968	1,869	1,720	1,829
White, non-Hispanics	1,762	1,608	1,578	1,572	1,460	1,217	1,337
Asians	50	80	96	76	68	88	90
Underrepresented minorities, total	329	370	346	320	341	415	402
Black, non-Hispanics	268	286	267	247	259	290	240
Hispanics	50	70	67	62	76	118	143
American Indians or Alaskan Natives	11	14	12	11	6	7	19
Nonresident aliens[2]	83	66	43	45	43	48	39
Unknown race/ethnicity or citizenship	31	24	36	24	53	36	30

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Engineering technologies are a summary of instructional programs that prepare individuals to support and assist engineering and related professionals or to independently provide such services. Programs stress specialized, practical knowledge related to the mathematical, scientific, or technical aspects of engineering and related sciences.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 32. Number of earned master's degrees awarded in engineering technologies, by race/ethnicity and sex of recipient: 1985-93

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
	Total						
Total, all recipients	816	883	1,135	1,194	1,188	1,278	1,555
U.S. citizens and permanent residents, total[1]	596	712	909	960	959	967	1,175
White, non-Hispanics	526	581	802	823	830	817	1,041
Asians	25	46	40	79	60	58	40
Underrepresented minorities, total	45	85	67	58	69	92	94
Black, non-Hispanics	37	42	55	44	47	64	61
Hispanics	6	17	10	9	19	23	25
American Indians or Alaskan Natives	2	26	2	5	3	5	8
Nonresident aliens[2]	124	127	131	152	172	215	279
Unknown race/ethnicity or citizenship	96	44	95	72	57	96	101
	Men						
Total, all recipients	674	678	892	888	888	971	1,172
U.S. citizens and permanent residents, total[1]	481	549	715	690	705	730	868
White, non-Hispanics	423	436	631	607	619	619	783
Asians	23	41	36	40	39	45	28
Underrepresented minorities, total	35	72	48	43	47	66	57
Black, non-Hispanics	28	35	40	32	29	46	32
Hispanics	5	11	7	7	17	16	18
American Indians or Alaskan Natives	2	26	1	4	1	4	7
Nonresident aliens[2]	115	105	103	131	131	156	211
Unknown race/ethnicity or citizenship	78	24	74	67	52	85	93
	Women						
Total, all recipients	142	205	243	306	300	307	383
U.S. citizens and permanent residents, total[1]	115	163	194	270	254	237	307
White, non-Hispanics	103	145	171	216	211	196	258
Asians	2	5	4	39	21	13	12
Underrepresented minorities, total	10	13	19	15	22	26	37
Black, non-Hispanics	9	7	15	12	18	18	29
Hispanics	1	6	3	2	2	7	7
American Indians or Alaskan Natives	0	0	1	1	2	1	1
Nonresident aliens[2]	9	22	28	31	41	59	68
Unknown race/ethnicity or citizenship	18	20	21	5	5	11	8

1 Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2 Nonresident aliens include foreign citizens on temporary visas only.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Engineering technologies are a summary of instructional programs that prepare individuals to support and assist engineering and related professionals or to independently provide such services. Programs stress specialized, practical knowledge related to the mathematical, scientific, or technical aspects of engineering and related sciences.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 33. Number of earned bachelor's degrees awarded in health fields, by race/ethnicity and sex of recipient: 1985-93

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
	Total						
Total, all recipients	65,612	64,399	60,114	59,852	60,228	62,655	67,942
U.S. citizens and permanent residents, total[1]	63,502	61,894	58,026	57,118	57,660	60,605	65,709
White, non-Hispanics	55,520	53,903	49,854	48,405	48,798	51,328	55,482
Asians	1,311	1,535	1,698	1,823	1,981	2,229	2,469
Underrepresented minorities, total	6,671	6,456	6,474	6,890	6,881	7,048	7,758
Black, non-Hispanics	3,836	3,725	3,886	4,056	4,122	4,151	4,670
Hispanics	2,562	2,464	2,348	2,580	2,481	2,571	2,747
American Indians or Alaskan Natives	273	267	240	254	278	326	341
Nonresident aliens[2]	819	777	747	796	978	863	1,013
Unknown race/ethnicity or citizenship	1,291	1,728	1,341	1,938	1,590	1,187	1,220
	Men						
Total, all recipients	9,931	9,346	9,068	9,418	9,855	10,305	11,467
U.S. citizens and permanent residents, total[1]	9,386	8,857	8,636	8,943	9,279	9,803	10,927
White, non-Hispanics	8,117	7,597	7,339	7,521	7,717	8,230	9,081
Asians	298	329	398	392	468	541	561
Underrepresented minorities, total	971	931	899	1,030	1,094	1,032	1,285
Black, non-Hispanics	484	469	451	502	525	530	673
Hispanics	438	417	401	491	519	441	545
American Indians or Alaskan Natives	49	45	47	37	50	61	67
Nonresident aliens[2]	280	261	226	242	283	248	278
Unknown race/ethnicity or citizenship	265	228	206	233	293	254	262
	Women						
Total, all recipients	55,681	55,053	51,046	50,434	50,373	52,350	56,475
U.S. citizens and permanent residents, total[1]	54,116	53,037	49,390	48,175	48,381	50,802	54,782
White, non-Hispanics	47,403	46,306	42,515	40,884	41,081	43,098	46,401
Asians	1,013	1,206	1,300	1,431	1,513	1,688	1,908
Underrepresented minorities, total	5,700	5,525	5,575	5,860	5,787	6,016	6,473
Black, non-Hispanics	3,352	3,256	3,435	3,554	3,597	3,621	3,997
Hispanics	2,124	2,047	1,947	2,089	1,962	2,130	2,202
American Indians or Alaskan Natives	224	222	193	217	228	265	274
Nonresident aliens[2]	539	516	521	554	695	615	735
Unknown race/ethnicity or citizenship	1,026	1,500	1,135	1,705	1,297	933	958

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 34. Number of earned master's degrees awarded in health fields, by race/ethnicity and sex of recipient: 1985-93

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
	Total						
Total, all recipients	17,525	18,580	19,410	20,482	21,398	23,213	25,823
U.S. citizens and permanent residents, total[1]	16,359	16,754	17,441	18,407	19,269	21,040	23,423
White, non-Hispanics	14,565	14,902	15,474	16,284	17,002	18,464	20,509
Asians	476	464	537	600	600	709	830
Underrepresented minorities, total	1,318	1,388	1,430	1,523	1,667	1,867	2,084
Black, non-Hispanics	819	811	814	886	1,004	1,092	1,251
Hispanics	438	518	535	558	572	685	718
American Indians or Alaskan Natives	61	59	81	79	91	90	115
Nonresident aliens[2]	845	869	1,073	1,082	1,238	1,310	1,466
Unknown race/ethnicity or citizenship	321	957	896	993	891	863	934
	Men						
Total, all recipients	4,155	3,915	4,239	4,554	4,499	4,714	5,248
U.S. citizens and permanent residents, total[1]	3,646	3,322	3,577	3,803	3,747	3,966	4,428
White, non-Hispanics	3,170	2,931	3,094	3,309	3,215	3,399	3,807
Asians	174	146	162	181	170	215	222
Underrepresented minorities, total	302	245	321	313	362	352	399
Black, non-Hispanics	179	134	173	158	194	171	207
Hispanics	109	99	128	135	146	158	172
American Indians or Alaskan Natives	14	12	20	20	22	23	20
Nonresident aliens[2]	426	444	519	474	543	539	610
Unknown race/ethnicity or citizenship	83	149	143	277	209	209	210
	Women						
Total, all recipients	13,370	14,665	15,171	15,928	16,899	18,499	20,575
U.S. citizens and permanent residents, total[1]	12,713	13,432	13,864	14,604	15,522	17,074	18,995
White, non-Hispanics	11,395	11,971	12,380	12,975	13,787	15,065	16,702
Asians	302	318	375	419	430	494	608
Underrepresented minorities, total	1,016	1,143	1,109	1,210	1,305	1,515	1,685
Black, non-Hispanics	640	677	641	728	810	921	1,044
Hispanics	329	419	407	423	426	527	546
American Indians or Alaskan Natives	47	47	61	59	69	67	95
Nonresident aliens[2]	419	425	554	608	695	771	856
Unknown race/ethnicity or citizenship	238	808	753	716	682	654	724

1 Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2 Nonresident aliens include foreign citizens on temporary visas only.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93

Table 35. Number of earned doctoral degrees awarded in health fields, by race/ethnicity and sex of recipient: 1985-93

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
	Total						
Total, all recipients	729	800	974	956	1,042	1,112	1,201
U.S. citizens and permanent residents, total[1]	575	635	751	756	828	844	943
White, non-Hispanics	502	554	685	667	722	735	806
Asians	34	36	23	39	45	53	48
Underrepresented minorities, total	39	45	43	50	61	56	89
Black, non-Hispanics	23	31	29	32	40	38	59
Hispanics	14	11	11	17	16	13	24
American Indians or Alaskan Natives	2	3	3	1	5	5	6
Nonresident aliens[2]	99	96	134	166	171	226	214
Unknown race/ethnicity or citizenship	55	69	89	34	43	42	44
	Men						
Total, all recipients	289	325	345	364	373	402	424
U.S. citizens and permanent residents, total[1]	190	226	221	239	248	221	260
White, non-Hispanics	152	191	195	205	200	177	209
Asians	20	19	13	17	21	23	25
Underrepresented minorities, total	18	16	13	17	27	21	26
Black, non-Hispanics	11	12	9	14	17	14	18
Hispanics	6	3	4	2	7	4	8
American Indians or Alaskan Natives	1	1	0	1	3	3	0
Nonresident aliens[2]	63	61	87	101	101	159	138
Unknown race/ethnicity or citizenship	36	38	37	24	24	22	26
	Women						
Total, all recipients	440	475	629	592	669	710	777
U.S. citizens and permanent residents, total[1]	385	409	530	517	580	623	683
White, non-Hispanics	350	363	490	462	522	558	597
Asians	14	17	10	22	24	30	23
Underrepresented minorities, total	21	29	30	33	34	35	63
Black, non-Hispanics	12	19	20	18	23	24	41
Hispanics	8	8	7	15	9	9	16
American Indians or Alaskan Natives	1	2	3	0	2	2	6
Nonresident aliens[2]	36	35	47	65	70	67	76
Unknown race/ethnicity or citizenship	19	31	52	10	19	20	18

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 36. First-professional degrees awarded, by race/ethnicity and sex of recipient: 1985-93

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
	Total						
Total, all recipients	75,562	72,120	71,318	71,551	72,636	74,801	76,068
U.S. citizens and permanent residents, total[1]	70,677	69,643	68,525	69,224	70,448	71,960	73,520
White, non-Hispanics	63,225	61,291	59,597	59,376	59,692	59,869	60,338
Asians	1,816	2,222	2,903	3,299	3,772	4,757	5,107
Underrepresented minorities, total	5,636	6,130	6,025	6,549	6,984	7,334	8,075
Black, non-Hispanics	3,029	3,341	3,017	3,337	3,535	3,568	4,078
Hispanics	2,359	2,491	2,746	2,959	3,191	3,472	3,632
American Indians or Alaskan Natives	248	298	262	253	258	294	365
Nonresident aliens[2]	862	872	960	1,036	1,086	1,342	1,548
Unknown race/ethnicity	4,023	1,605	1,833	1,291	1,102	1,499	1,000
	Men						
Total, all recipients	50,780	46,841	45,399	44,309	44,226	45,459	45,565
U.S. citizens and permanent residents, total[1]	47,138	45,266	43,646	42,814	42,760	43,648	43,849
White, non-Hispanics	42,635	40,314	38,499	37,367	36,926	37,089	36,896
Asians	1,152	1,391	1,772	1,946	2,171	2,728	2,831
Underrepresented minorities, total	3,351	3,561	3,375	3,501	3,663	3,831	4,122
Black, non-Hispanics	1,623	1,798	1,568	1,627	1,653	1,620	1,777
Hispanics	1,552	1,583	1,661	1,738	1,868	2,054	2,156
American Indians or Alaskan Natives	176	180	146	136	142	157	189
Nonresident aliens[2]	681	624	671	702	762	948	1,103
Unknown race/ethnicity	2,961	951	1,082	793	704	863	613
	Women						
Total, all recipients	24,782	25,279	25,919	27,242	28,410	29,342	30,503
U.S. citizens and permanent residents, total[1]	23,539	24,377	24,879	26,410	27,688	28,312	29,671
White, non-Hispanics	20,590	20,977	21,098	22,009	22,766	22,780	23,442
Asians	664	831	1,131	1,353	1,601	2,029	2,276
Underrepresented minorities, total	2,285	2,569	2,650	3,048	3,321	3,503	3,953
Black, non-Hispanics	1,406	1,543	1,449	1,710	1,882	1,948	2,301
Hispanics	807	908	1,085	1,221	1,323	1,418	1,476
American Indians or Alaskan Natives	72	118	116	117	116	137	176
Nonresident aliens[2]	181	248	289	334	324	394	445
Unknown race/ethnicity	1,062	654	751	498	398	636	387

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTE: First professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of preprofessional training.

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 37. First-professional degrees awarded in health fields, by race/ethnicity and sex of recipient: 1985-93

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
	Total						
Total, all recipients	30,601	29,400	29,518	28,787	28,183	28,303	29,475
U.S. citizens and permanent residents, total[1]	28,273	28,484	28,663	28,041	27,207	27,082	28,308
White, non-Hispanics	24,856	24,467	24,094	23,027	21,956	21,333	22,076
Asians	1,142	1,394	1,978	2,290	2,472	2,909	3,317
Underrepresented minorities, total	2,275	2,623	2,591	2,724	2,777	2,840	2,915
Black, non-Hispanics	1,073	1,269	1,159	1,251	1,285	1,288	1,350
Hispanics	1,057	1,217	1,323	1,373	1,381	1,417	1,426
American Indians or Alaskan Natives	145	137	109	100	111	135	139
Nonresident aliens[2]	420	462	482	535	506	703	782
Unknown race/ethnicity	1,908	454	373	211	470	518	385
	Men						
Total, all recipients	21,675	20,011	19,596	18,562	17,777	17,694	17,704
U.S. citizens and permanent residents, total[1]	19,963	19,394	19,021	18,105	17,126	16,912	16,957
White, non-Hispanics	17,796	16,925	16,298	15,232	14,207	13,607	13,608
Asians	749	870	1,217	1,363	1,440	1,718	1,859
Underrepresented minorities, total	1,418	1,599	1,506	1,510	1,479	1,587	1,490
Black, non-Hispanics	585	691	581	606	573	604	556
Hispanics	728	822	861	847	841	907	858
American Indians or Alaskan Natives	105	86	64	57	65	76	76
Nonresident aliens[2]	311	303	313	327	328	474	510
Unknown race/ethnicity	1,401	314	262	130	323	308	237
	Women						
Total, all recipients	8,926	9,389	9,922	10,225	10,406	10,609	11,771
U.S. citizens and permanent residents, total[1]	8,310	9,090	9,642	9,936	10,081	10,170	11,351
White, non-Hispanics	7,060	7,542	7,796	7,795	7,751	7,726	8,468
Asians	393	524	761	927	1,032	1,191	1,458
Underrepresented minorities, total	857	1,024	1,085	1,214	1,298	1,253	1,425
Black, non-Hispanics	488	578	578	645	712	684	794
Hispanics	329	395	462	526	540	510	568
American Indians or Alaskan Natives	40	51	45	43	46	59	63
Nonresident aliens[2]	109	159	169	208	178	229	272
Unknown race/ethnicity	507	140	111	81	147	210	148

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTES: First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of preprofessional training.

Health fields include: Chiropractic, Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry, and Veterinary Medicine.

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

Table 38. First-professional degrees awarded in non-health fields, by race/ethnicity and sex of recipient: 1985-93

Citizenship and race/ethnicity	1985	1987	1989	1990	1991	1992	1993
	Total						
Total, all recipients	44,961	42,720	41,800	42,784	44,453	46,498	46,593
U.S. citizens and permanent residents, total[1]	42,404	41,199	39,862	41,183	43,241	44,879	45,212
White, non-Hispanics	38,369	36,824	35,503	36,349	37,734	38,536	38,262
Asians	674	828	925	1,009	1,300	1,848	1,790
Underrepresented minorities, total	3,361	3,507	3,434	3,825	4,207	4,494	5,160
Black, non-Hispanics	1,956	2,072	1,858	2,086	2,250	2,260	2,728
Hispanics	1,302	1,274	1,423	1,586	1,810	2,055	2,206
American Indians or Alaskan Natives	103	161	153	153	147	159	226
Nonresident aliens[2]	442	410	478	501	580	639	766
Unknown race/ethnicity	2,115	1,151	1,460	1,080	632	981	615
	Men						
Total, all recipients	29,106	26,830	25,803	25,747	26,449	27,765	27,861
U.S. citizens and permanent residents, total[1]	27,175	25,872	24,625	24,709	25,634	26,736	26,692
White, non-Hispanics	24,839	23,389	22,201	22,135	22,719	23,482	23,288
Asians	403	521	555	583	731	1,010	972
Underrepresented minorities, total	1,933	1,962	1,869	1,991	2,184	2,244	2,632
Black, non-Hispanics	1,038	1,107	987	1,021	1,080	1,016	1,221
Hispanics	824	761	800	891	1,027	1,147	1,298
American Indians or Alaskan Natives	71	94	82	79	77	81	113
Nonresident aliens[2]	370	321	358	375	434	474	593
Unknown race/ethnicity	1,560	637	820	663	381	555	376
	Women						
Total, all recipients	15,856	15,890	15,997	17,017	18,004	18,733	18,732
U.S. citizens and permanent residents, total[1]	15,229	15,287	15,237	16,474	17,607	18,142	18,320
White, non-Hispanics	13,530	13,435	13,302	14,214	15,015	15,054	14,974
Asians	271	307	370	426	569	838	818
Underrepresented minorities, total	1,428	1,545	1,565	1,834	2,023	2,250	2,528
Black, non-Hispanics	918	965	871	1,065	1,170	1,264	1,507
Hispanics	478	513	623	695	783	908	908
American Indians or Alaskan Natives	32	67	71	74	70	78	113
Nonresident aliens[2]	72	89	120	126	146	165	173
Unknown race/ethnicity	555	514	640	417	251	426	239

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTES: First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of preprofessional training.

Non-health fields include: Law, Divinity/Ministry, and Rabbinical and Talmudic Studies.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; data from the HEGIS Earned Degrees Surveys, 1985, and IPEDS Completions Surveys, 1987-93.

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